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CERCLA

Screening Site Inspection Report



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Protection Agency**
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EPA Region 5 Records Ctr.



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1. Introduction

On September 24th, 1991 the Illinois Environmental Protection Agency's Pre-Remedial Program was tasked by the U.S. Environmental Protection Agency (USEPA) to conduct a Screening Site Inspection (SSI) of the former Kettle River Treating Company site located south of Edwardsville, Illinois.

The site was initially discovered by the Illinois Environmental Protection Agency (IEPA) and placed on the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) on August 29, 1990 as a result of a request for discovery action initiated by the IEPA. This site, among others, was discovered while researching past industrial waste disposal activities in the East St. Louis region (Madison & St. Clair Counties) from 1890 to the present time by Mr. Craig Colten of the Illinois State Museum, Springfield, Illinois. This action was taken due to the facility's potential of allowing chemical substances associated with wood treating to enter the environment through the four environmental pathways; groundwater, surface water, soil exposure and air releases.

The facility was evaluated in the form of a Preliminary Assessment (PA), prepared by Kenneth W. Corkill of the IEPA, that was submitted to the Region V office of the U.S. Environmental Protection Agency dated July 22, 1991. The Illinois EPA's Pre-Remedial Unit prepared an SSI workplan for the Kettle River Treating Co. site which was submitted

April 2, 1992 to USEPA Region V for approval. A site safety plan was also prepared for the site. The safety plan was completed on April 14, 1992, after which, all sampling team members read and signed the document. The Site Screening Inspection of this site was conducted on April 21 and 22, 1992. The IEPA SSI included interviews with individuals owning portions of property which was once that of the site, a reconnaissance inspection and the collection of 14 samples on and off-site (11 soil and 3 sediment).

The purposes of an SSI have been stated by USEPA in a directive outlining Pre-Remedial program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score. 2) establish priorities among sites most likely to qualify for the NPL (National Priorities List). 3) identify the most critical data requirements for the listing SSI step. A Screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned), or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act)... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (USEPA 1988).

The Region V offices of the U.S. EPA have also requested that the Illinois Environmental Protection Agency identify sites during the Screening Site Inspection that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

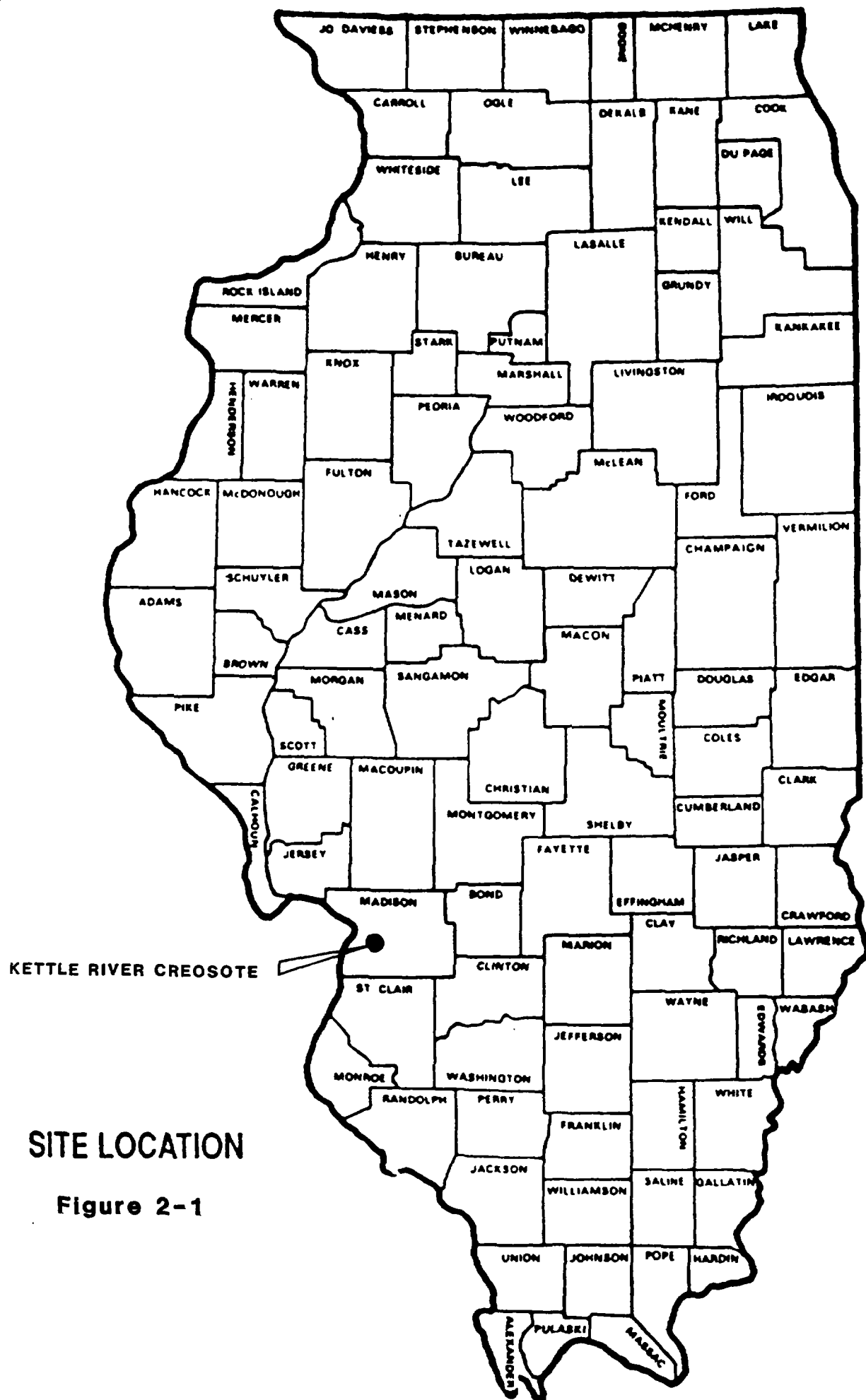
2.1 INTRODUCTION

This section includes information obtained over the course of the formal CERCLA Screening Site Inspection and previous Illinois Environmental Protection Agency activities involving this site including the workplan preparation and site representative interview.

2.2 SITE DESCRIPTION

The Kettle River Treating Company site has been inactive since 1960 with all site structures razed shortly after plant closure. The company was formerly a large wood treating operation utilizing creosote and related coke by-products as treatment solutions. The sites' ground surface consists of soil, cinders, grass, weeds, scattered bushes and trees and two areas of concrete foundations of former site structures. A few areas on-site are devoid of vegetation. The site once contained four buildings, one treatment cylinder, six upright cylindrical storage tanks, two surface impoundments, one 150,000 gallon water tower, six miles of railroad side track and numerous stacks of both treated and untreated railroad ties paralleling the tracks.

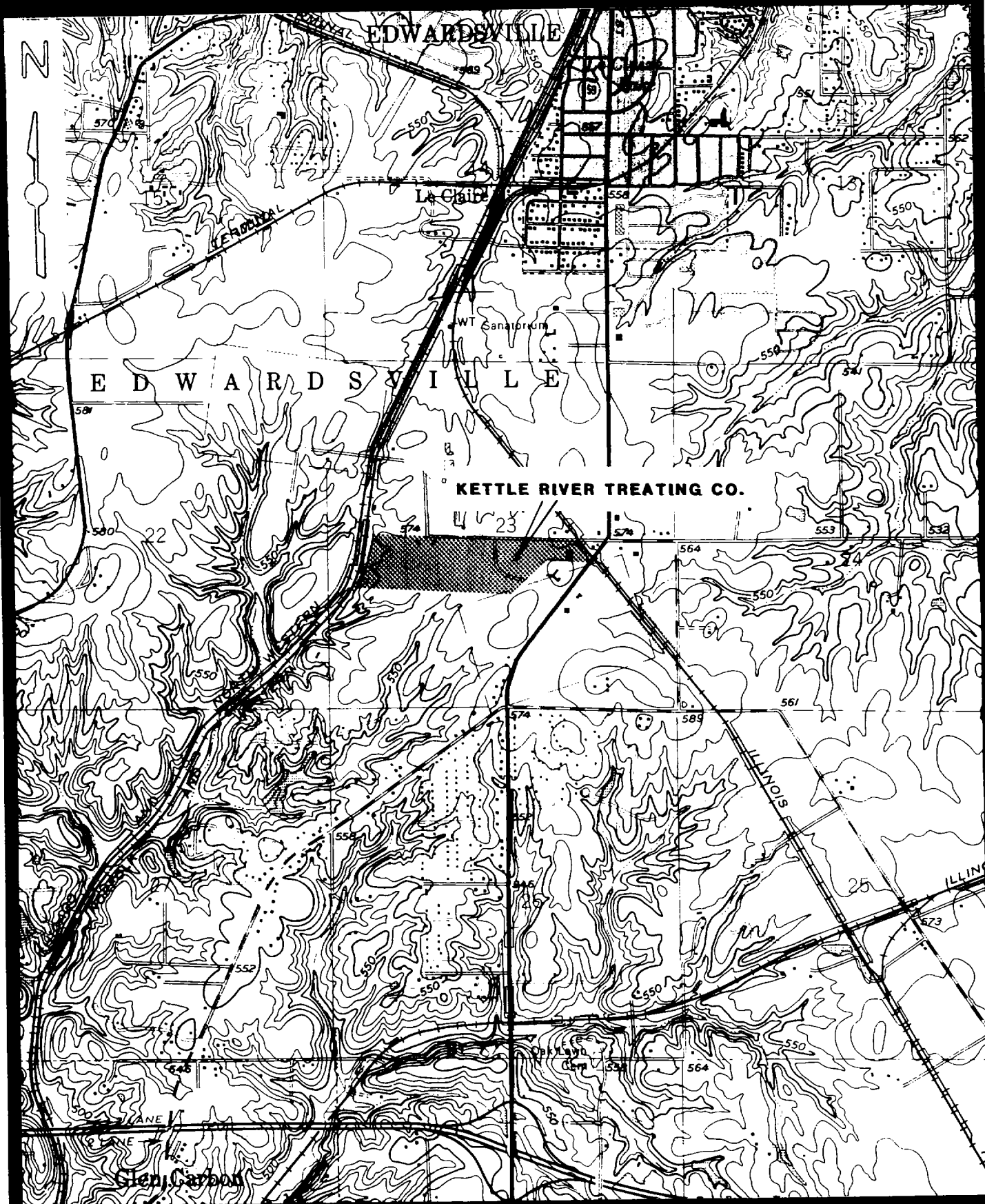
Kettle River Treating Company ILD984791665 was located 1.8 miles north of I-270 on Center Grove Road approximately 1/8 mile west of State Route 159 in Edwardsville Township, Madison County (Figure 2-1). The site occupied approximately 80 acres on the south side of Center Grove Road, one of the



boundary lines between the cities of Edwardsville and Glen Carbon. Bordering the site to the north was Center Grove Road, south by open farm field, east by the Illinois Terminal Railroad and State Route 159 and west by a side track of the Norfolk & Western Railroad. The site is situated in an area that use to be a rural setting surrounded by farmed land (corn and beans). Some areas near the site remain as such. Most areas are now suburbs of Edwardsville and Glen Carbon. The nearest individual and occupied structure (Edwardsville Bargain Center) is located on site. The closest urban areas are located adjacent to the southern site boarder. This is a new subdivision called Bay Hill Village. The nearest residence in this subdivision is approximately 100 feet south of the former sites' southern property line. The closest city is the City of Edwardsville, approximately 1 mile north of the site. The City of Glen Carbon includes the former site property. Kettle River Treating Company was situated in the N 2/3, NW 1/4, SE 1/4; the N 2/3, NE 1/4, SW 1/4 and portions of the E 1/2, NW 1/4, SW 1/4 of Section 23 T.4N.-R.8W. (Figures 2-2). For potential groundwater and surface water migration, a 4-mile radius, groundwater route map (Appendix A) and a 15-mile surface water drainage route map (Appendix B) are provided.

2.3 SITE HISTORY

The Kettle River Treating Co. site in Edwardsville, Illinois was owned and operated by Kettle River Treating Co.



Source: IEPA, 1992. Base Map: USGS Edwardsville, 7.5 Min. Quad.

Site Map
Figure 2-2

of Madison, Illinois. Kettle River Treating Company had operations which consumed coke by-products which possibly left hazardous materials on site. The company was established in the 1890's in Madison, Illinois with that particular operation being heralded as one of the worlds largest, operating with approximately 225 employees in 1920. The Edwardsville site was established in January 1925, operating until 1960. The company name changed to American Creosoting at some point in the 1950's. The Edwardsville operation had slowed considerably during the 1950's which prompted closure of the plant in 1960. The Madison plant absorbed the Edwardsville operation (most of the equipment and the employees).

Construction of the Edwardsville plant began in late January 1925. The plant employed between 50-75 persons by 1930. Construction consisted of establishment of a switch connection between the Nickle Plate System R.R. tracks (now known as the Norfolk & Western) west of the plant, a switch connection with the St. Louis Troy & Litchfield & Madison R.R. tracks (now known as the Illinois Terminal) east of the plant, laying of railroad track on site (approximately six to seven miles of track) with each set of on-site tracks running parallel to one another and being 72 feet apart; constructing the main plant building, a 100 ft. x 200 ft. structure which housed the companys' equipment; constructing the 124 ft. long, 8 ft. diameter, 300,000 pound treatment cylinder; six creosote solution storage tanks; two side by side surface

impoundments; constructing a 150,000 gallon water tower and extending a water line south from the Tuberculosis Sanitarium which is about 1/2 mile north of the site.

The plant was estimated to be able to store 1.25 million railroad ties and various amounts of other types of timber products. The untreated timber was to be stacked along the railroad tracks on site for air drying. Drying time took up to one year. When dry, the ties etc. were placed in the treatment cylinder for six hours at a pressure of 250 pounds per square inch. After treatment the ties were removed from the cylinder, placed on special railroad cars, taken to a drip dry area and allowed to dry. Approximately 200,000 ties were treated per year. No information could be found regarding containment of the creosote drippings from the drip dry areas and the treatment cylinder operations. However, considering the time period and lack of environmental concern and/or lack of awareness of the hazardous nature of creosote treatment chemicals, the assumption is made that creosote solution and waste creosote solution was allowed to accumulate on the ground in these areas with little or no clean-up attempted. No complaints have been registered by area residents or businesses. There has been construction activity on the northcentral, eastern and western portions of the former site. During these activities, various degrees of excavation have taken place with no reports of visual anomalies or foul or noxious odors.

2.4 APPLICABILITY OF OTHER STATUTES

There are no other applicable environmental statutes associated with Kettle River Treating Company besides CERCLA.

3. SITE INSPECTION ACTIVITIES AND ANALYTICAL RESULTS

3.1 INTRODUCTION

This section outlines procedures utilized and observations made during the CERCLA Screening Site Inspection, conducted at Kettle River Treating Company. Individual subsections address the site representative interview, reconnaissance inspection field sampling procedures, analytical results and key samples summary. The Screening Site Inspection for Kettle River Treating Company was conducted in accordance with the U.S. EPA approved site inspection work plan, which was developed and submitted to the USEPA Region V Offices prior to the initiation of field activities.

The U.S. Environmental Protection Agency Potential Hazardous Waste Site Inspection Report (Form 2070-13) for Kettle River Treating Company is provided in Appendix C.

3.2 SITE REPRESENTATIVE INTERVIEW

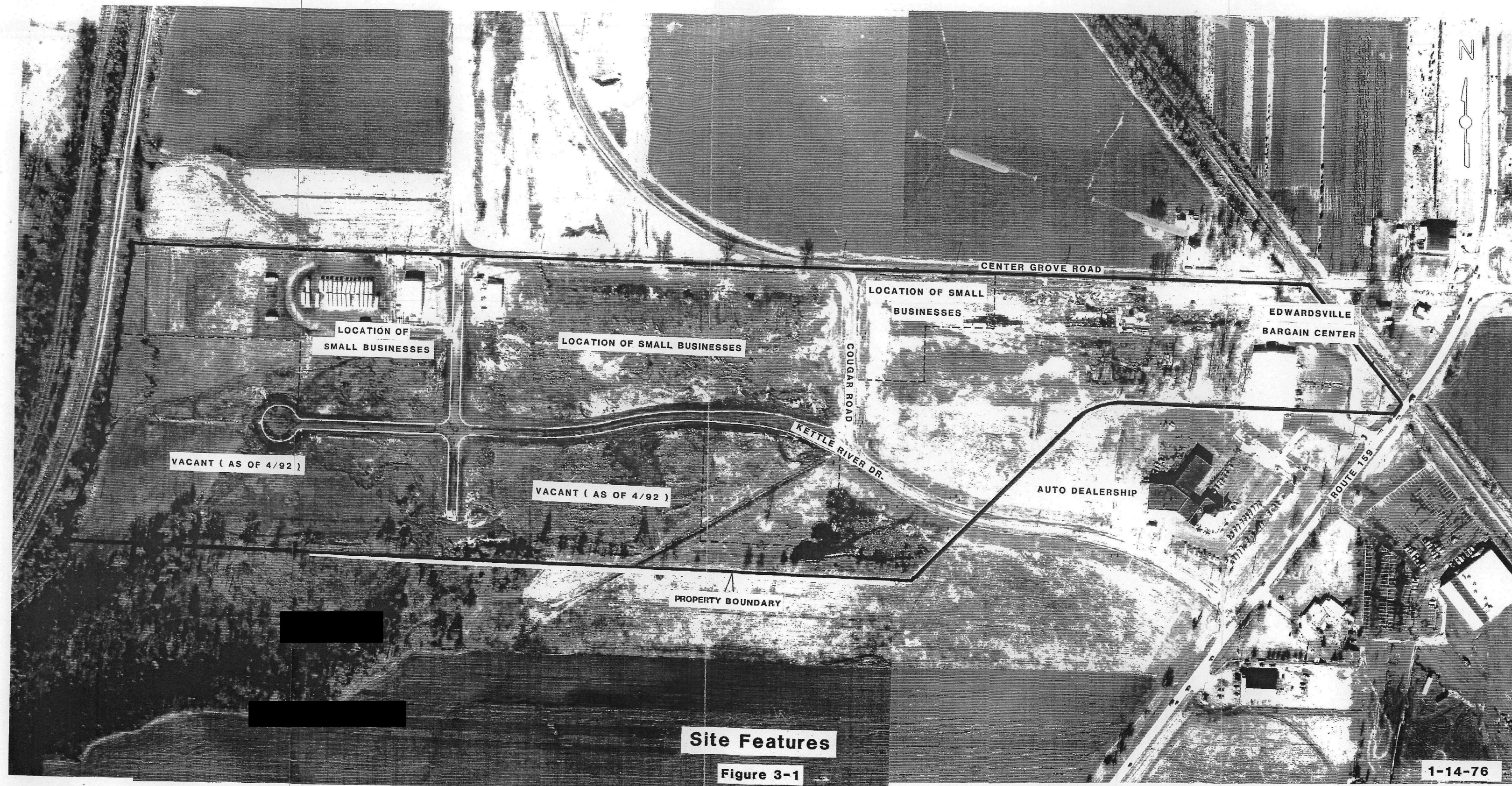
The site representative interview was conducted on April 16, 1992 between Mr. Kenneth W. Corkill of the IEPA, and the owner of the Edwardsville Bargain Center. Another short interview with the owner was conducted on April 21, 1992 just prior to the actual site inspection sampling activities. Also present during the interview on April 21, 1992 were Tim Murphy, Greg Spencer and Kim Nika of the Illinois EPA's Pre-Remedial Unit. The owner of the Bargain Center represented the site through present ownership of a parcel of land previously owned by Kettle River Treating Co. The

interview was conducted to inform the site representative of IEPA's intentions, to talk about past, present and future activities and problems, explain the CERCLA Pre-Remedial process, and to point out proposed sampling locations. Shortly after the sampling teams' arrival at 7:50 A.M., the interview began, with the goals of the investigation being explained. The plans involved the collection of 14 soil/sediment samples from on and off site. Soil/sediment samples were to be collected by shovel, stainless steel bucket auger or stainless steel spoon at various locations and depths to determine if contamination is present at the site and if so, what types. After outlining the sample locations for the site representative, he proposed a short tour around the perimeter of his property. The site representative described his property lines and locations of various former site features in relation to his property. The site representative indicated that in recalling former site features he was doing so via information handed down through word of mouth and personal recollection. The site representative was asked whether he had knowledge of mishaps occurring on-site. He had no information regarding past incidents, if there were any. The IEPA inspection team informed the site representative of the types of contaminants that were potentially present on-site due to past creosoting operations. He was informed that chemical constituents may include creosote, pentachlorophenol, naphthalene, ethylbenzene, toluene, xylene, pyrene, phenanthrene, etc.

3.3 RECONNAISSANCE INSPECTION

During and following the site representative interview, IEPA personnel conducted a pre-sample reconnaissance inspections of the Kettle River site and surrounding area. The reconnaissance inspection included a walk-through of the property to positively identify the soil and sediment sampling locations, set forth in the work plan as potential locations, and to determine appropriate health and safety requirements. The reconnaissance inspection on April 16, 1992 began at 10:00 am. The inspection on April 21, 1992 began at 8:00 am. The site representative accompanied the IEPA personnel on the reconnaissance inspection.

Reconnaissance Inspection Observations. General Observations and Reconnaissance Observations: The 80 acre Kettle River facility (Figure 3-1), as mentioned previously, is flat and consists of soil, cinders, grass, weeds, scattered bushes and trees and two areas of concrete foundations of former site structures. The site was observed to be entirely unrestricted as there are no fences at any point around the former facility. There is no public recreational use associated with this site. Although, being a large expanse of open field, crossing it on foot or bicycle, etc. would be a likely occurrence. The only visible remnants of the former site are three piles of broken up, reinforced concrete, one 30'x 30' concrete floor and one 12'x 30' concrete floor of former buildings. Commercial businesses now exist on the northwest, northcentral and



eastern portions of the former site. Additional small businesses are being established and are in the construction phase at the west end of the site. Numerous railroad siding tracks and treated railroad tie storage areas were formerly located where the west and central businesses are presently situated. The one business on the eastern portion of the site is partially situated on the former location of the upright creosote storage tanks. The southwestern, southcentral and eastcentral portions of the site, currently unoccupied, are also areas where numerous R.R. siding tracks once were located. These areas are reportedly owned by Lakewood Development Incorporated. The various plats are now known as Kettle River II & III. There is no known date for future development of this area. Recent information indicates that this company may be bankrupt. Also, the Illinois Secretary of States Office - Corporation Division does not have records on file for this corporation. The site appears to have been graded after removal of all railroad tracks, ties and structures. The site, as noted, is flat with vegetative growth (grass & weeds) being mowed on a regular basis. Review of a number of aerial photographs dating from 1959 to 1976 (Appendix E-1) has revealed the location of former site features and drainage patterns. In the northeast portion of the site there were (what appears to have been) two surface impoundments, six upright-cylindrical storage tanks, and four buildings. The remainder of the site contained numerous railroad side tracks

and large stacks of both treated and untreated railroad ties. These stacks paralleled the side tracks for ease of loading and unloading.

While walking the site the IEPA sampling team conducted air monitoring by use of an HNU meter. Monitoring of the breathing zone and near the soil surface registered nothing more than background readings (1 - 2 meter units). No peculiar or extremely unusual site characteristics were noted during a survey of the locations of former site structures and rail lines. In the western portion of the site, where various construction activities are taking place, excavations were surveyed visually and with an HNU meter. The IEPA team was looking for signs of contamination in piles of excavated soil and in soil horizons in the excavations themselves. There were no indications that contamination may be present at these particular locations. The site is located on a localized, relatively flat area on a slightly rolling ground moraine of Illinoian Age. Physiographically the site is situated on the Springfield Plain of the Till Plains Section of the Central Lowland Province. The site can also be characterized as lying at approximately 575 feet above mean sea level (MSL) at the drainage divide between two highly dendritic drainage basins. The north basin drains to Cahokia Creek and into the Mississippi River. The south basin drains to the Cahokia Canal and into the Mississippi River.

Surface drainage is imperceptible in the northcentral and eastern portions of the site. Drainage from the southcentral

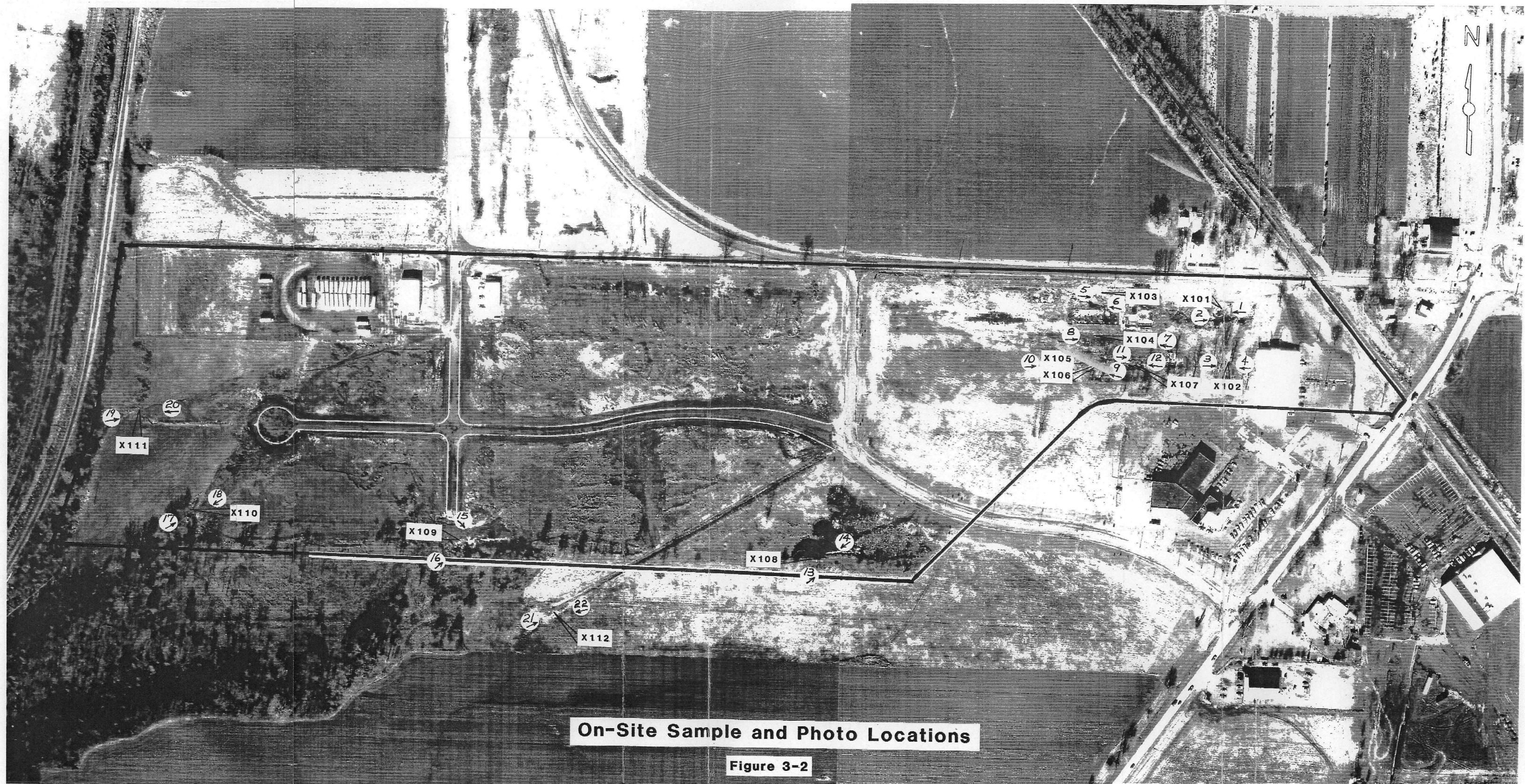
portion of the site follows surface slope toward the south, flowing via a small unnamed field ditch to a small lake south of the site. Drainage from the western portion of the site follows surface slope toward the west and southwest, flowing off-site in a west-southwest direction via a field ditch to an intermittent stream paralleling the Chicago and Northwestern and the Norfolk and Western Railroad tracks. The intermittent stream flows toward the south-southwest.

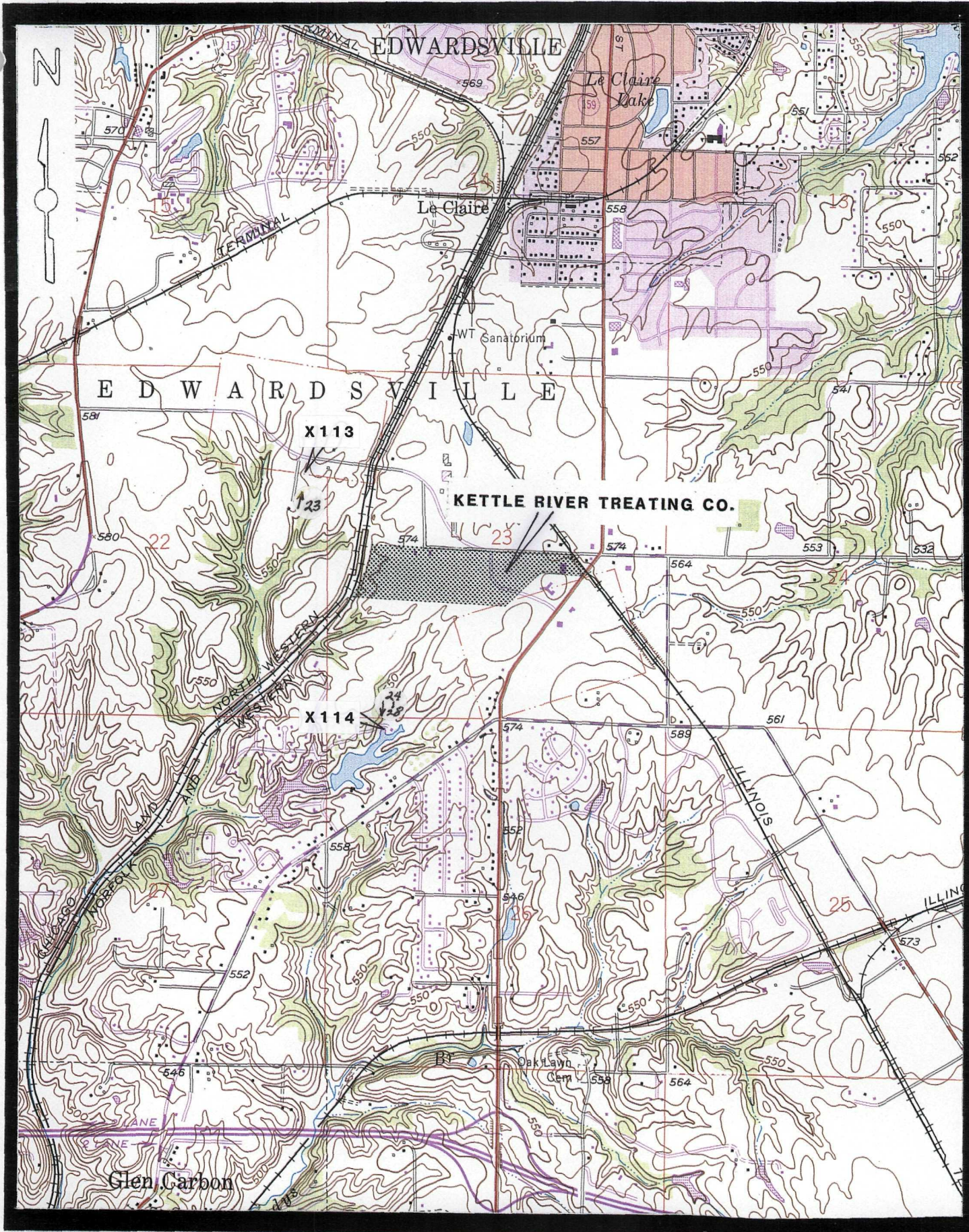
Land use within 1/2 mile of the site in all directions is a mixture of agricultural, commercial and residential. The southern corporate boundary line of the City of Edwardsville is 3/4 mile north of the site. As mentioned previously, the site is within the Glen Carbon corporate limits and is situated along a portion of the northern boundary line.

3.4 SOIL/SEDIMENT SAMPLING

Samples were collected by IEPA personnel to determine levels of USEPA Target Compound List (TCL) compounds present at the site. The TCL is provided in Appendix D. On April 21, 1992, IEPA personnel collected 14 soil/sediment samples (Figure 3-2 & 3-3 for the 14 sample locations). There were no requests to split samples with IEPA. Site representatives did not accompany the IEPA sampling team during sample collection.

Soil Sampling Procedures. The 14 soil/sediment samples were collected on April 21, 1992 to compare on-site and off-site information and determine if contamination exists at locations where the majority of previous site activity had





Source: IEPA, 1992. Base Map: USGS Edwardsville, 7.5 Min. Quad.

Off-Site Sample & Photo Locations
Figure 3-3

taken place or in any run-off areas. Samples at each sample point were placed into their respective jars in the following fashion: volatile jars filled first, semi-volatile organic jar second, inorganic jar third. After sampling each location, all sample containers were capped with their respective lids and placed in coolers immediately after obtaining the sample. Sample X101 is located 12.8 feet north and 22 feet west of the northwest corner of the loading dock at the northwest corner of the Edwardsville Bargain Centers' warehouse. The sample was taken from within a small grass covered area at that location. This particular area was targeted for sampling based on review of aerial photographs indicating creosote storage tanks present while the site was active. The sample was obtained, using a stainless steel soil auger, from a depth between 1 and 3 feet. Air monitoring was performed by use of an HNU (all subsequent samples were also monitored with the HNU). Readings were noted at 5 meter units when the meter probe was placed into the auger bore to approximately 6 inches. Background HNU readings were 1 - 2 units at this location. Sample appearance was a medium tan to light brown to gray, silty clay with fine gravel. Sample X102 is located 67 feet west of the west wall of the original Bargain Center building and 75.6 feet south of the south wall of the new building (warehouse). The sample was taken from within the grass covered area at that location. This area was selected due to its proximity to the former creosote storage tanks. The

sample was obtained, using a stainless steel trowel, from a depth between 8 and 12 inches. Air monitoring indicated 3 units when the probe was placed into the sample hole to approximately 3 inches. Background readings were 1.5 - 2 units at this location. Sample appearance was medium tan to light brown to gray silty clay with fine gravel. Sample X103 is located 39 feet south of Center Grove Roads' south curb and 250 feet west of sample point X101. The sample was taken from a grassy area at that location. This area was selected due to its' proximity to a foundation suspected to be that of the former treatment cylinder. The sample was obtained, using a stainless steel auger, from a depth between 1.8 to 2 feet. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the bore hole to approximately 6 inches. Soil appearance from surface to 6 inches was tan to black in color, cinders mixed with sand, silt and clay. Sample appearance at depth was dark brown to black with larger cinders mixed with sand, silt and clay. Various items of debris such as wood, metal and coal were also found at sample depth. Sample X104 is located 18 feet directly south of sample point X103. The sample was taken from a dirt covered area at that location. As with X103 the location was selected due to its' proximity to the aforementioned cylinder foundation. The sample was obtained, using a stainless steel auger, from a depth between 1.8 to 2 feet. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the bore hole

to approximately 6 inches. Sample appearance was medium tan to medium brown sandy, silty clay. Sample X105 is located 300 feet due north of the northwest corner of the west wing of the auto dealership south of the site and 130 feet due west of the 300 foot mark. The sample was taken from an area of grass and dirt. This area was targeted for sampling based on review of aerial photographs indicating the presence of a pair of surface impoundments utilized while the site was active. This sample point is situated in the former location of the western impoundment. The sample was obtained, using a stainless steel auger, from a depth of 2 feet. The 2 foot depth was chosen due to visual anomalies appearing in the soil as the sampling team augered in that location. A specific sampling depth was not previously determined due to the uncertainty regarding the depth to these impoundments below land surface. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the bore hole approximately 6 inches. Sample appearance was tan to medium brown to black to gray/green sandy, silty clay. The cinder and debris laden soil at 1.8 to 2 feet in depth also emitted a hydrocarbon type/creosote odor. Although an odor existed, there was no reading above background on the HNU. Sample X106 is a duplicate of X105. Soil being obtained for X105 was placed in a stainless steel pan, mixed thoroughly then placed alternately into jars for both X105 and X106. Sample X107 is located 55 feet due east of X105 and X106. The sample was taken from an area of grass

and dirt. This area was targeted for sampling, as was X105, based on review of aerial photographs indicating the presence of a pair of surface impoundments utilized while the site was active. This sample was obtained, from the former location of the eastern impoundment, using a stainless steel auger from a depth of 2 feet. The 2 foot depth was chosen, as it was for X105, due to visual anomalies appearing in the soil as the sampling team augered in that location. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the bore hole approximately 6 inches. Sample appearance was tan to medium brown to black to gray/green sandy, silty clay. The cinder and debris laden soil at 1.8 to 2 feet in depth also emitted a hydrocarbon type/creosote odor. Although an odor existed, there was no reading above background on the HNU. Sample X108 is located 255 feet due south of the northeast corner post of the chainlink fence surrounding DRDA Electric, between two hedge trees along an old hedge row. The sample was taken from an area of bare soil covered with leaves measuring approximately 5 feet by 5 feet in a weedy area in the hedge row. This area was selected in part based on review of aerial photographs indicating the presence of numerous railroad side tracks and stacks of treated railroad ties in or near that location when the site was active. Subsequent aerial photographs, after the site was razed and rails removed, indicated debris and very dark soil at this location, possibly suggesting contamination caused by

creosote drippings etc. Choosing this sample location was further enhanced by its' relatively undisturbed appearance. The sample was obtained, using a stainless steel trowel, from a depth between 1.5 to 2 feet. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the sample hole approximately 6 to 12 inches. Sample appearance was dark brown to black with cinders from the surface to one foot in depth then sandy, silty clay to 2 feet. Sample X109 is located 81 feet southeast of the end of the pavement of Commercial Court. The sample point was located in a grass covered area immediately adjacent to the old hedge row at the southern boundary of the former site. This area was selected, as was the location for X108, in part based on review of aerial photographs indicating the presence of numerous railroad side tracks and stacks of treated railroad ties in or near that location when the site was active. Subsequent aerial photographs, after the site was razed and rails removed, indicated debris and very dark soil at this location, possibly suggesting contamination caused by creosote drippings etc. In addition to the above, this area appears to be the sites' southern drainage collection point prior to flowing south off-site. The sample was obtained, using a stainless steel trowel, from a depth between 1.5 to 2 feet. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the sample hole approximately 6 to 12 inches. Sample appearance was dark brown to black sandy, silty clay with a 1.5 inch light

tan clay layer at a depth of 6 inches then more sandy, silty clay to 2 feet. Sample X110 is located 300 feet southwest of the street light pole (the only light pole present) at the west end of the cul-de-sac at the west end of Kettle River Drive. The sample was taken from within a grass covered area that appeared to be an illegal dumping site. Items present were empty 55-gallon drums, bed springs, appliances, plastic, glass etc. This area was selected for the same reasons cited for X108 and X109 and due to the dumping which has occurred at the location. The sample was obtained, using a stainless steel trowel, from a depth between land surface and 4 inches. Air monitoring indicated no readings above background of 1.5 - 2 units when the probe was placed into the sample hole approximately 2 inches. Sample appearance was very dark brown to black sandy, silty loam with cinders mixed throughout. Sample X111 is located 235 feet west-northwest of the light pole noted above. The sample was taken from a small, field drainage way at that location. The drainage way and surrounding area are grass covered, with small bare spots within the drainage way. This location was selected due to this area being the sites' western drainage collection point prior to flowing west off-site. The sediment sample was obtained, using a stainless steel trowel, from a depth between sediment surface and 4 inches. The sample point was located beneath approximately 6 inches of water. Air monitoring of the sample as it was brought out of the water indicated no readings above background of 1.5 to 2 units.

Sample appearance was light brown to dark gray silty, clayey loam. Sample X112 is located 75 feet due north of the first fire hydrant west of the entrance to Bay Hill Village subdivision south of the Kettle River site. The sample was taken from a drainage way which drains the southern portion of the site. The sample point was chosen to determine if there are contaminants migrating off-site. The area consists of weeds, tall grasses and mud. The drainage way currently flows via a channel to just past the sample point then disperses in a sheet flow toward the roadway. The sheet flow, however, still follows a southerly migration, ultimately entering a lake in Lakewood subdivision. Prior to development of Bay Hill subdivision, this drainage way flowed as a field drainage way from the site directly to the mentioned lake in an uninterrupted fashion. The sample was obtained, using a stainless steel trowel, from a depth between sediment surface and 6 inches. The sample point was located beneath approximately 6 inches of standing or slowly flowing water. Air monitoring of the sample as it was brought out of the water indicated no readings above background of 1.5 to 2 units. Sample appearance was light to medium tan to light brown silty, sandy, clay loam. Sample X113 is located approximately 1/4 mile northwest of the site in Edwardsville Community Township Park. The sample point is 96.5 feet south of the A-7A aircraft display stand and 75 feet east of the east edge of the parking area at the north end of the park. The sample was taken from the parks grass

covered surface at that location. This particular area was selected due to its separation from the site and the soil type being the same as that of the site. The sample was obtained, using a stainless steel trowel, from a depth between the ground surface and 6 inches. Air monitoring indicated no readings above background of 1.5 to 2 units. Sample appearance was light to medium tan to light brown silty, sandy, clay loam. Sample X114 is located 12 feet south of the culvert pipe leading from the field drainage way to the northern most lake in Lakewood subdivision, south of the Kettle River site. The specific location of this sample point is at the northern most point of the northwest finger of the lake. The property owner at this location is a Mr. MacCraken. He indicated that he has lived on this property for over 30 years. The lake use to be used as a water source for an old coal mine located just northwest of the Kettle River property. The lake water also was a source of drinking water for an unspecified number of local residents many years ago (also unspecified time frame). Mr. MacCraken indicated that the drainage way entering the lake provided drainage for Kettle River Treating Companys' southern surface water runoff. He said he never noticed anything unusual entering the lake which might have been attributable to the site. He also said "there's more junk coming down the way now, from all the home construction, than there was when Kettle River was in business". This location was chosen due to the sites' potential for deposition of material into the drainage way

which ultimately might have entered the lake at its' northern most point. The sediment sample was obtained, using a stainless steel auger, from a depth between the sediment surface and 1 foot. The sample location was approximately one foot beneath the lakes' surface. Air monitoring of the sample as it was brought out of the water indicated no readings above background of 1.5 to 2 units. Sample appearance was light to dark brown to gray to black silty, sandy, clay sediment.

All samples were analyzed for the Target Compound List constituents. The Target Compound List is provided in Appendix D of this report. Samples requiring analysis for inorganics were sent to the IEPA's Champaign lab, while samples requiring analysis for organics were delivered to IEPA's Springfield lab. Photographs of the site and sample points are provided in Appendix E-2 (Figure 3-2 & 3-3 for Photo Location Maps). Area well logs are provided in Appendix E-3.

Decontamination Procedures. Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to collection of all samples. All sampling equipment had been previously decontaminated at the Illinois EPA's warehouse prior to its transport to the site. Decontamination procedures included the cleaning of all equipment with a liquid Alconox solution, rinsing with hot tap water, rinsing with a 50% mixture of acetone and water, rinsing with hot tap water again and with distilled water as

a final rinse. All equipment is either dried with paper towel or air dried, then wrapped and stored in heavy duty aluminum foil. Field decontamination procedures include all of the above except the hot tap water rinse.

3.5 ANALYTICAL RESULTS

This section includes a summary of the analytical results of samples collected during the CERCLA Site Inspection conducted at the Kettle River Treating Company site near Edwardsville, Illinois.

Analytical Results of IEPA Collected Samples. Chemical analysis of soil/sediment samples collected by IEPA personnel revealed quantified and estimated values of volatiles, semi-volatiles, pesticides, heavy metals, common laboratory artifacts and common soil constituents. Reference Table 3-2 for the summary of soil/sediment sample chemical analysis results. Complete laboratory analytical data of Kettle River Treating Companys' sample analysis are provided in Appendix F (under separate cover as Volume 2 of this report). Various levels of volatile constituents are found in nine of the samples, however, most can be identified as laboratory artifacts. Elevated levels of semi-volatile constituents are found in samples X101, X105, X106, X107, X110 and X111. Various low levels of pesticides are noted in all samples except X112 and X114 which showed no pesticide contamination. Elevated levels of heavy metals are present in a number of samples. Calcium is elevated in all samples except X108 and

X109; Cobalt in all samples except X104 and X107; Copper in X103 and X107; Iron in X103; Lead in X102, X103, X106, X107, X110 and X111; Magnesium in X101, X106, X107 and X114; Mercury, above detection limits in all except X104, X111 and X112; Nickel in X103; Selenium in X103, X107 and X110; Sodium in X103, X106, X107 and X110; and Zinc in X102, X103, X106 and X110. The highest levels of contaminants from all samples obtained are the semi-volatile fractions associated with sample points X101, X105, X106 and X107. These sample points correspond to former, major, site features (creosote storage tanks, X101; two surface impoundments, X105 -X107) which were the focus of attention when preparing the sampling plan for this site investigation.

3.6 KEY SAMPLES

The following table (Table 3-1) identifies the key samples that were taken during the Kettle River Treating Company Site Inspection that were shown to contain contaminants at a level significantly higher than background concentrations. For a review of all contaminants detected in all samples, reference Table 3-2, Sample Summary, located after Table 3-1 in this section. (Table 3-2 can also be found at the front of Volume 2 of 2 of this report).

Table 3-1
 ANALYTICAL SUMMARY

1992 Screening Site Inspection Results

| SAMPLING POINT | X101 04-21-92 | X102 04-21-92 | X103 04-21-92 | X104 04-21-92 | X105 04-21-92 | X106 04-21-92 | X107 04-21-92 | X108 04-21-92 | X109 04-21-92 | X110 04-21-92 | X111 04-21-92 | X112 04-21-92 | X113 04-21-92 | X114 04-21-92 |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| VOLATILES | | | | | | | | | | | | | | |
| Methylene Chloride | 210,000 | | 200,000 J | | | | 130,000 | 220,000 | | 640,000 D | | | | |
| Acetone | | | | | | 140,000 | 180,000 | | | 80,000 | | | | |
| 1,1-dichloroethane | | | 150,000 J | | | | | | | | | | | |
| 2-Butanone | 58,000 | | | 3,000 J | 47,000 | 100,000 | 230,000 | 150,000 | 14,000 | 7,000 J | | | | |
| 1,1,1-trichloroethane | | | | | | | | | | 55,000 J | | | | |
| Toluene | 8,000 J | | | | | | 9,000 J | 6,000 J | | 12,000 J | | | | |
| Xylene(s) total | | | | | | | | | | | 1,800 J | | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| PESTICIDES | | | | | | | | | | | | | | |
| Beta-BHC | | | 5,900 JFD | | 15,000 JFD | | | | | | | | | |
| Delta-BHC | | | 5,300 JFD | | 12,000 JFD | | | | | 4,800 JD | | | | |
| Lindane (Gamma-BHC) | 5,000 JD | | | | | 11,000 JFD | 12,000 JFD | | | | | | | |
| Heptachlor | | | 6,500 JFD | | 23,000 PD | 26,000 PD | 34,000 D | | | 57,000 PD | | | | |
| Aldrin | | | 37,000 PD | | 110,000 PD | 74,000 PD | 43,000 PD | | | 4,700 JFD | | | | |
| Endosulfan I | | 11,000 JD | | | | | | | | 55,000 D | | | | |
| Endosulfan II | | | 14,000 JD | | | | | | | 8,400 JFD | | | | |
| Dieldrin | | | | | 600,000 PD | 270,000 PD | 340,000 PD | | | 110,000 | | | 41,000 JD | |
| Endrin | | | 5,800 JFD | | 82,000 PD | 22,000 JFD | 44,000 PD | | | | | | | |
| 4,4'-DDE | | | 11,000 JFD | | 83,000 PD | 73,000 PD | 64,000 PD | | | 53,000 | | | | |
| 4,4'-DDT | | | 42,000 JFD | | | | 20,000 JFD | | | 140,000 PD | | | | |
| Endrin ketone | | | 130,000 PD | | | | | | | | | | | |
| Endosulfan sulfate | | | 20,000 JD | | 25,000 JFD | 31,000 JFD | 83,000 PD | | | | | | | |
| Methoxychlor | | | 13,000 JFD | | | | | | | | | | | |
| Chlordane-alpha | 28,000 JFD | | 10,000 JFD | | | 17,000 JD | | | | 11,000 JFD | | | | |
| Chlordane-gamma | | | 16,000 JFD | | | | | | | | | | | |
| Aroclor-1242 | | | 4,200 JFD | | | | | | | 4,700 JFD | | | | |
| Aroclor-1248 | | | | | | | | | | | | | | |
| Aroclor-1260 | | | 380,000 JFD | | | | 280,000 PD | | | 480,000 PD | | | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| SEMI-VOLATILES | | | | | | | | | | | | | | |
| Naphthalene | 210,000 J | | 160,000 J | | 800,000 | 330,000 J | 360,000 J | | | 180,000 J | | | | |
| 2-Methylnaphthalene | 150,000 J | | 360,000 J | | 670,000 | 240,000 J | 220,000 J | | | 420,000 | | | | |
| Acenaphthylene | 180,000 J | | | | 420,000 | 160,000 J | 220,000 J | | | | | | | |
| Acenaphthene | 91,000 J | | | | 250,000 J | 780,000 J | 900,000 J | | | | | | | |
| Dibenzofuran | 180,000 J | | 160,000 J | | 760,000 | 340,000 J | 360,000 J | | | | | | | |
| Fluorene | | | | | 270,000 D | 480,000 | | | | | | | | |
| Phenanthrene | 100,000 | | | | 600,000 D | 180,000 | 110,000 J | | | 170,000 E | | | | |
| Anthracene | 210,000 E | | | | 290,000 D | 500,000 DE | 130,000 J | | | 79,000 J | | | | |
| Fluoranthene | 150,000 | | 340,000 J | | 170,000 J | 270,000 D | 400,000 J | | | 450,000 | | | | |
| Pyrene | 140,000 | | 330,000 J | | 111,000 D | 270,000 D | 320,000 J | | | 87,000 J | | | | |
| Benzofluoranthene | 110,000 | | 290,000 J | | 10,000 D | 260,000 D | 310,000 J | | | 730,000 | | | | |
| Benzofluoranthene | 110,000 | | 170,000 J | | 54,000 D | 140,000 D | 190,000 J | | | 350,000 J | | | | |
| Chrysene | | | 190,000 J | | 98,000 D | 290,000 D | 260,000 D | | | 470,000 | | | | |
| Benzofluoranthene | 140,000 | | 250,000 J | | 680,000 D | 260,000 D | 270,000 D | | | 240,000 J | | | | |
| Benzofluoranthene | 110,000 | | 160,000 J | | 490,000 D | 170,000 D | 160,000 D | | | 620,000 | | | | |
| Benzofluoranthene | 110,000 | | | | 590,000 D | 200,000 D | 150,000 D | | | 410,000 J | | | | |
| Indeno(1,2,3-cd)pyrene | | | | | 100,000 | | 880,000 | | | 230,000 J | | | | |
| Benzo (ghi) perylene | 380,000 J | | | | 110,000 J | | | | | | | | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| INORGANICS | | | | | | | | | | | | | | |
| Cadmium | | 0.910 | 3.100 | | | 1.400 | | | | 3.400 | | | | |
| Calcium | 8230,000 | 7810,000 | 6350,000 | 4980,000 | 10500,000 | 55100,000 | 73600,000 | | | 8100,000 | 8000,000 | 8220,000 | 1540,000 | 31800,000 |
| Copper | | | 199,000 | | | | 45,000 | | | | | | 12,100 | |
| Iron | | | 120000,000 | | | | | | | | | | 13700,000 | |
| Lead | | 121,000 | | | | 65,000 | 85,000 | | | 58,800 | 97,200 | | 14,400 | 20600,000 |
| Magnesium | 5440,000 | | | | | 7290,000 | 8800,000 | | | | | | 1530,000 | |
| Mercury | 0.230 | | | | | | | | | | | | | |
| Nickel | | | 45,700 | | | 248,000 B | 305,000 B | | | 804,000 | | | 15,200 | |
| Sodium | | 178,000 | 638,000 | | | 402,000 | | | | 577,000 | | | 56,800 | |
| Zinc | | | | | | | | | | | | | | |
| | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |

Table 3 - 2

ANALYTICAL SUMMARY

1992 Screening Site Inspection Results

| SAMPLING POINT | X101 04-21-92 | X102 04-21-92 | X103 04-21-92 | X104 04-21-92 | X105 04-21-92 | X106 04-21-92 | X107 04-21-92 | X108 04-21-92 | X109 04-21-92 | X110 04-21-92 | X111 04-21-92 | X112 04-21-92 | X113 04-21-92 | X114 04-21-92 |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| VOLATILES | | | | | | | | | | | | | | |
| Methylene Chloride | 210.00 | | 2600.000 J | | | | 130.000 | 220.000 | | 640.000 D | | | | |
| Acetone | | | | | | 140.000 | 190.000 | | | 90.000 | | | | |
| 1,1-dichloroethane | | | 1500.000 J | 3.000 J | | | | | | | | | | |
| 2-Butanone | 56.000 | | | | 47.000 | 100.000 | 230.000 | 150.000 | 14.000 | 190.000 | | | | |
| 1,1,1-Trichloroethane | | | | | | | | | | 7.000 J | | | | |
| Toluene | 8.000 J | | | | | | 9.000 J | 8.000 J | | 56.000 J | | | | |
| Xylenes (total) | | | | | | | 4.000 J | | | 12.000 J | | 1.600 J | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| PESTICIDES | | | | | | | | | | | | | | |
| Beta-BHC | | | 5.900 JPD | | 15.000 JPD | | | | | 4.800 JD | | | | |
| Delta-BHC | | | 6.300 JPD | | 12.000 JPD | | | | | | | | | |
| Lindane (Gammalin-BHC) | 5.000 JD | | | | | 11.000 JPD | 12.000 JPD | | | | | | | |
| Heptachlor | | | | | | 31.000 PD | 41.000 PD | | | 57.000 PD | | | | |
| Aldrin | | | 8.500 JPD | | | 26.000 PD | 34.000 D | | | 4.700 JPD | | | | |
| Heptachlor Epoxide | | | 37.000 PD | | | 110.000 PD | 74.000 PD | 43.000 PD | | 55.000 D | 28.000 D | | | |
| Endosulfan I | | 11.000 JD | | | | | | | | 8.400 JPD | | | | |
| Dieldrin | | | 14.000 JD | | | 660.000 PD | 340.000 PD | | | 110.000 | | 41.000 JD | | |
| Endrin | | | 5.600 JPD | | | 62.000 PD | 44.000 PD | | | 53.000 | | | | |
| 4,4'-DDD | | | 11.000 JPD | | | 83.000 PD | 73.000 PD | | | | | | | |
| Endosulfan II | 44.000 D | | 42.000 JPD | | | | | | | 140.000 PD | | | | |
| 4,4'-DDT | | | 130.000 JPD | | | | 20.000 JPD | | | | | | | |
| Endrin ketone | | | | | 25.000 JPD | 31.000 JPD | 53.000 PD | | | | | | | |
| Endosulfan sulfate | | | 20.000 JD | | | | | | | | | | | |
| Methoxychlor | 25.000 JP | | 13.000 JPD | 10.000 JPD | | | | | | 11.000 JPD | 4.700 JPD | | | |
| Chlordane-alpha | | | | 16.000 JPD | | 17.000 JD | | | | | | | | |
| Chlordane-gamma | | | | 4.200 JPD | | | | | | 440.000 PD | | | | |
| Aroclor-1242 | | | | | | | | | | | | | | |
| Aroclor-1248 | | | 396.000 JPD | | | | | | | | | | | |
| Aroclor-1260 | | | | | | | 2800.000 PD | | | | | | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| SEMI-VOLATILES | | | | | | | | | | | | | | |
| Naphthalene | 210.000 J | | 1600.000 J | | 6000.000 | 3300.000 J | 3500.000 J | | | 190.000 J | | | | |
| 2-Methylnaphthalene | 150.000 J | | 3600.000 J | | 6700.000 | 2400.000 J | 2200.000 J | | | 420.000 | | | | |
| Acenaphthylene | 140.000 J | | | | 4200.000 | 1600.000 J | 2200.000 J | | | | | | | |
| Acenaphthene | 91.000 J | | | | 2500.000 J | 740.000 J | 900.000 J | | | | | | | |
| Dibenzofuran | 130.000 J | | 1600.000 J | | 7000.000 | 5400.000 J | 3900.000 J | | | | | | | |
| Fluorene | 1000.000 | | | | 27000.000 D | 4900.000 | | | | | | | | |
| Phenanthrene | 2100.000 E | | | | 60000.000 D | 16000.000 | 11000.000 D | | | 17000.000 E | 320.000 J | | | |
| Anthracene | 1500.000 | | 3100.000 J | 370.000 J | 11000.000 D | 27000.000 DE | 13000.000 | | | 70.000 J | | | | |
| Fluoranthene | 1600.000 | 340.000 J | 2900.000 J | 340.000 J | 10000.000 D | 26000.000 D | 40000.000 DE | 320.000 J | 110.000 J | 450.000 | 480.000 | 67.000 J | | 270.000 J |
| Pyrene | 1100.000 | 330.000 J | 1900.000 J | 200.000 J | 54000.000 D | 14000.000 D | 19000.000 D | 310.000 J | 110.000 J | 780.000 | 720.000 | 65.000 J | | 310.000 J |
| Benzo(a)anthracene | | | 1200.000 J | | 98000.000 D | 28000.000 D | 29000.000 D | 130.000 J | | | 350.000 J | | | 200.000 J |
| Chrysene | | | 1900.000 J | | 86000.000 D | 24000.000 D | 26000.000 D | 140.000 J | | 470.000 | | | | 340.000 J |
| Benzo(b)fluoranthene | 1400.000 | 250.000 J | 1600.000 J | 340.000 J | 69000.000 D | 26000.000 D | 27000.000 D | 240.000 J | | 790.000 | | | | 230.000 J |
| Benzo(k)fluoranthene | 1100.000 | 180.000 J | 240.000 J | | 48000.000 D | 17000.000 D | 18000.000 D | 130.000 J | | 620.000 | | | | 46.000 J |
| Benzo(a)pyrene | 440.000 | | | | 59000.000 D | 20000.000 D | 15000.000 D | 63.000 J | | 410.000 J | | | | 140.000 J |
| Indeno(1,2,3-cd)pyrene | 390.000 J | | | | 10000.000 | | 6900.000 | | | 230.000 J | | | | |
| Benzo(g,h,i)perylene | | | | | | | | 330.000 J | | | | | | |
| | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) | (ppb) |
| INORGANICS | | | | | | | | | | | | | | |
| Aluminum | 16600.000 | 15700.000 | 13350.000 | 12500.000 | 10900.000 | 12500.000 | 10700.000 | 13900.000 | 10200.000 | 8420.000 | 13300.000 | 13400.000 | 11900.000 | 15400.000 |
| Antimony | | | | | | | | | | | | | 6.800 B | 8.100 B |
| Arsenic | 12.700 | 16.200 | 17.400 | 6.000 | 9.400 | 8.300 | 7.200 | 4.800 | 5.800 | 12.200 | 7.400 | 8.500 | 6.500 | 7.400 |
| Barium | 164.000 | 227.000 | 81.600 | 174.000 | 213.000 | 150.000 | 112.000 | 232.000 | 198.000 | 119.000 | 115.000 | 168.000 | 183.000 | 134.000 |
| Beryllium | 0.740 | 0.860 | 0.840 | 0.850 B | 0.810 | 0.860 | 0.860 | 0.810 | 0.860 B | 1.200 | 0.700 | 0.770 | 0.540 B | 0.580 B |
| Cadmium | | | 3.100 | | | 1.400 | | | | | | | | |
| Cerium | 9230.000 | 7810.000 | 6350.000 | 4860.000 | 10500.000 | 55100.000 | 73500.000 | 1620.000 | 3780.000 | 6100.000 | 6030.000 | 6220.000 | 1540.000 | 31600.000 |
| Chromium | 24.100 | 28.600 | 27.500 | 19.400 | 23.600 | 41.200 | 25.900 | 17.300 | 15.600 | 17.100 | 18.700 | 18.300 | 17.100 | 22.800 |
| Cobalt | 10.500 | 10.200 | 11.900 | 6.800 B | 9.800 | 7.000 | 5.800 B | 8.400 | 7.110 | 12.100 | 8.700 | 12.300 | 6.200 B | 7.500 |
| Copper | 19.400 | 29.700 | 180.000 | 17.800 | 23.500 | 29.300 | 45.000 | 13.600 | 14.800 | 31.600 | 16.900 | 15.300 | 12.100 | 30.500 |
| Iron | 21100.000 | 22500.000 | 12000.000 | 17700.000 | 23400.000 | 25100.000 | 19100.000 | 16400.000 | 13400.000 | 33400.000 | 19800.000 | 20500.000 | 13700.000 | 21600.000 |
| Lead | 37.900 | 121.000 | 133.000 | 14.400 | 42.300 | 65.000 | 85.000 | 14.900 | 22.000 | 56.000 | 97.200 | 22.000 | 14.400 | 23.400 |
| Magnesium | 5440.000 | 2920.000 | 3400.000 | 3400.000 | 3070.000 | 7290.000 | 8990.000 | 1510.000 | 1670.000 | 1300.000 | 2760.000 | 2500.000 | 1530.000 | 20800.000 |
| Manganese | 636.000 | 108.000 | 479.000 | 634.000 | 905.000 | 833.000 | 473.000 | 871.000 | 662.000 | 652.000 | 1170.000 | 1550.000 | 981.000 | 382.000 |
| Mercury | 0.230 | 0.040 B | 0.070 B | | 0.060 B | 0.060 B | 0.060 B | 0.020 B | 0.050 B | 0.050 B | | | | 0.050 B |
| Nickel | 20.600 | 19.700 | 45.700 | 17.200 | 26.200 | 20.300 | 16.200 | 11.900 | 17.300 | 29.600 | 22.400 | 18.500 | 15.200 | 18.500 |
| Potassium | 2170.000 | 2270.000 | 1060.000 | 1060.000 | 1820.000 | 1980.000 | 1540.000 | 1570.000 | 1540.000 | 1590.000 | 1590.000 | 1340.000 | 2050.000 | 2050.000 |
| Selenium | | 0.200 B | 1.220 | 0.150 B | | | 0.690 | 0.360 B | 0.180 B | 2.700 | 0.320 B | 0.310 B | 0.190 B | |
| Silver | | | | | | | | | | | | | | |
| Sodium | | | 406.000 B | | | 246.000 B | 305.000 B | | | 604.000 | | | 6.700 B | |
| Sulfur | 0.700 B | 0.460 B | | | 0.470 B | 0.430 B | 0.520 B | 0.490 B | | | | | | |
| Thallium | 39.000 | 47.600 | 24.900 | 19.200 | 35.100 | 70.300 | 26.700 | 20.300 | 24.500 | 25.400 | 32.100 | 34.500 | 26.300 | 35.100 |
| Vanadium | 150.000 | 178.000 | 638.000 | 77.400 | 119.000 | 402.000 | 148.000 | 93.900 | 80.500 | 577.000 | 106.000 | 76.300 | 58.900 | 76.500 |
| Zinc | | | | | | | | | | | | | | |
| Cyanide | | | | | | | | | | | | | | |

U.S.E.P.A. DEFINED DATA QUALIFIERS

QUALIFIER DEFINITION ORGANICS

DEFINITION INORGANICS

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> • U | <p>Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.</p> | <p>Analyte was analyzed for but not detected.</p> |
| <ul style="list-style-type: none"> • J | <p>Estimated value. Used when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.</p> | <p>Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.</p> |
| <ul style="list-style-type: none"> • C | <p>This flag applies to pesticide results where the identification is confirmed by GC/MS.</p> | <p>Method qualifier indicates analysis by the Manual Spectrophotometric method.</p> |
| <ul style="list-style-type: none"> • B | <p>Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action</p> | <p>The reported value is less than the CRDL but greater than the instrument detection limit (IDL).</p> |
| <ul style="list-style-type: none"> • D | <p>Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values are flagged with the "D" flag.</p> | <p>not used</p> |

QUALIFIER DEFINITION ORGANICS

- E Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.

- A This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.

- M not used

- N not used

- S not used

- W not used

- * not used

- + not used

DEFINITION INORGANICS

- The reported value is estimated because of the presence of interference
-
- Method qualifier indicates analysis by Flame Atomic Absorption (AA).
-
- Duplicate injection (a QC parameter) not met.
-
- Spiked sample (a QC parameter) recovery not within control limits.
-
- The reported value was determined by the Method of Standard Additions (MSA).
-
- Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
-
- Duplicate analysis (a QC parameter) not within control limits.
-
- Correlation coefficient for MSA (a QC parameter) is less than 0.995.

QUALIFIER DEFINITION ORGANICS

- P not used
- CV not used
- AV not used
- AS not used
- T not used
- NR The analyte was not required to
 be analyzed.
- R Rejected data. The QC
 parameters indicate that the
 data is not usable for any
 purpose.

DEFINITION INORGANICS

- Method qualifier indicates analysis
by ICP (Inductively Coupled
Plasma) Spectroscopy.
- Method qualifier indicates analysis
by Cold Vapor AA.
- Method qualifier indicates analysis
by Automated Cold Vapor AA
- Method qualifier indicates analysis
by Semi-Automated Cold
Spectrophotometry.
- Method qualifier indicates
Titrimetric analysis.
- The analyte was not required to be
analyzed.
- Rejected data. The QC parameters
indicate that the data is not usable
for any purpose.

4. IDENTIFICATION OF SOURCES

4.1 INTRODUCTION

This section discusses the various hazardous waste sources which have been identified in the initial stages of the CERCLA Site Investigation.

Information concerning size, volume, waste type and waste composition of each source is compiled during the initial Site Assessment and subsequent Site Inspection. It should be pointed out however, that in this case, an entire description of each of the sources, previously situated on site, cannot be completed due to lack of attainable information. Also, due to the site being razed in the early 1960's and sources "eliminated" (dismantled and shipped off-site, buried, bulldozed etc.), the only source that can be identified and used for HRS scoring purposes at this time is site soil.

4.2 SITE SOIL

In the early 1960's prior to site razing, structures on site (which would currently be considered hazardous waste sources) consisted of six upright creosote storage tanks, a treatment cylinder, two side by side surface impoundments and the treated tie drip dry areas (which covered practically the entire central, centralwest and southwestern portions of the site). As mentioned previously in the text, sample points were chosen to correspond to the location of former site structures/features. Analysis of soil samples obtained from

the former location of the two surface impoundments revealed high levels of contaminants attributable to the wood treating industry. Information from a newspaper article written in 1925 suggests that this operation required the use of one million gallons of water per month. The purpose is not known, however it goes on to say that the majority of this water was unusable after the first use and was discharged to the surface impoundments. The remainder was used a second time, then discharged to the impoundments. With no solid information available regarding the ultimate disposition of this water, the assumption is made that it was pumped into the impoundment where it would: 1) Allow solids to settle out, 2) Evaporate, 3) Infiltrate into the soil and groundwater, and 4) Possibly overflow due to excessive rainfall. Because the water was said to have been unusable after its use, the investigators assumed that it was highly contaminated and would deposit these contaminants in the impoundment as sediment. With an accumulation of these contaminants over the life of the site, the impoundments are a major contributor in site soil contamination. Analysis of soil samples obtained from the former locations of the storage tanks, treatment cylinder and drip dry areas revealed similar contaminants (see Tables 3-1 and 3-2). Containment of the creosote drippings from the drip dry areas and the treatment cylinder operations along with spills or leaks from the storage tanks were most likely of little concern during the time of site operations. Considering the time period and

lack of environmental concern and/or lack of awareness of the hazardous nature of creosote treatment chemicals, the assumption is made that creosote solution and waste creosote solution was allowed to accumulate on the ground in these areas with little or no clean-up attempted.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section discusses data and information which may be useful in analyzing Kettle River Treating Companys' impact on the four pathways identified in CERCLA's Hazard Ranking System (HRS).

The four migration pathways of concern are groundwater, surface water, soil exposure and air.

5.2 GROUNDWATER

There were no groundwater samples taken during the Site Investigation. No groundwater monitor wells exist on or near the site nor are there any public or private drinking water wells on or near the site.

The unconsolidated Pleistocene glacial drift in this region consists of a complex of ice laid till, water laid silt, sand and gravel alluvium and wind blown loess. The majority of this material is pre-Illinoian and Illinoian in age. Some sand and gravel alluvium and the overlying loess are Wisconsinan in age. Drift ranges from 74 feet thick over shallow bedrock below the site to approximately 95 feet thick over the Cahokia Bedrock Valley, three miles northwest of the Kettle River Treating Company site. The blanketing loess varies in thickness from 6 to 10 feet in depth. Sand and gravel deposits within the drift on the uplands are scarce and occur as stringers, most of which are only a few inches thick and of extremely limited areal extent. Sand and gravel

deposits in the Cahokia Creek bottomlands and beyond into the American Bottoms occur mainly as outwash deposits in buried channels and as alluvial deposits of the ancient Mississippi River. Water yielding sand and gravel deposits in the American Bottoms occur generally at a depth of about 50 feet. Edwardsville's public water supply wells are constructed in this formation at depths of approximately 90 feet. These wells are located 1 1/2 miles west of the bluff line, west of Edwardsville in Poag, Illinois.

Beneath the glacial drift the shallow bedrock in the area consists mainly of shales, sandstones and limestones of the Pennsylvanian Modesto Formation. These are encountered at 74 feet below ground surface ranging in thickness from 100 feet to 400 feet. If fractured, the limestone at the bedrock surface may be capable of yielding small supplies of water for domestic users, but cannot be considered for moderate to large supplies such as municipal systems. The next potential aquifer is the Mississippian System consisting of the Chester Limestone (limestone-shale/sandstone-shale) formations, St. Genevieve Limestone, St. Louis Limestone, Salem Limestone, Warsaw Shale etc. The Chester Limestone is encountered 200-300 feet below ground surface and is between 1 inch to 200 feet thick. Beneath the Chester is the St. Genevieve which is about 200-500 feet below ground surface and 1 inch to 150 feet thick. Underlying the St. Genevieve is the St. Louis and Salem limestones which are encountered between 250 to 650 feet below ground surface and are 250 and 350 feet thick.

Beneath the Salem Limestone is the Warsaw Shale which is found approximately 500 to 650 feet below ground surface and generally is estimated to be 100 feet thick below the site. The Warsaw is potentially a confining layer between the formations mentioned, which are above it and those found below. The predominant topographic feature of the bedrock surface in the Edwardsville area is the buried Cahokia Bedrock Valley which trends from the northeast to southwest with the top of the south valley wall being approximately 1 to 2 miles north of the Kettle River Treating Company site. Bedrock elevations range from approximately 500 feet above MSL under the site and at the valley flank to approximately 350 feet above MSL at the lowest point in the southwestern portion of the valley.

The surface geology of the immediate area, as mentioned previously, consists mainly of glacial drift. The drift is characterized by interbedded layers and lenses of clay and sand with some silt and gravel present. Top soil varies from 1 to 3 feet deep over the site. Underlying the top soil is approximately 8 to 10 feet of yellow clay, 18 to 30 feet of interbedded yellow clay, blue clay, sand and gravel and 15 to 20 feet of grey clay with dirty yellow sand and gravel. Groundwater in the site area is found between 15 and 50 feet below ground surface. The direction of groundwater flow is not known at this time. It is known, however, that slope of the underlying bedrock is toward the northwest. Surface topography, as mentioned, is generally flat on site with

slope at the perimeter of the site being toward the south, southwest and west.

Drinking water for communities in the area is supplied by a number of public groundwater wells located to the west of the uplands in the American Bottoms of the Mississippi River Valley. All of these wells are greater than four miles west and southwest of the Kettle River site. Private wells located within the four mile radius of the site obtain drinking water from the thin beds of sand and gravel within the areas glacial till. Many of the wells are large diameter wells penetrating the loess, obtaining water from the interface between the loess and underlying till. Private wells have been found to range in depth from 30 feet to 66 feet with water found at 20 feet to 60 feet in depth. The private well closest to the site is approximately 2500 feet to the south. It is estimated that there are 700 persons obtaining drinking water from private groundwater wells within the 4 mile radius around the former site. There have been no reports of groundwater contamination in the area. No wellhead protection areas (as designated by Section 1428 of the Safe Drinking Water Act) exist near the site. A listing of the number of private wells and approximate number of users in each distance category are presented in Table 5-1.

Table 5-1

Number of wells and users within 4-miles of
Kettle River Treating Company

| <u>Distance</u> | <u>Groundwater Wells</u> | <u>Private Well Population</u> |
|-----------------|------------------------------|------------------------------------|
| 0 - 1/4 mile | 0 | 0 |
| 1/4 - 1/2 mile | 2 | 5 |
| 1/2 - 1 mile | 3 | 8 |
| 1 - 2 miles | 20 | 55 |
| 2 - 3 miles | 60 | 158 |
| 3 - 4 miles | 180 | 474 |

There are no public drinking water wells within a 4-mile radius of the site.

5.3 SURFACE WATER

No surface water samples were collected during the April 21, 1992 Site Investigation of Kettle River Treating Company. However, three sediment samples were obtained from site drainage routes (which drained the western and southern portions of the site) and from the Lakewood Subdivision lake which ultimately receives runoff from the sites' southern drainage route. Analysis of these samples have indicated an observed release to surface water in all three locations, one location on-site and two off-site. Through the use of aerial photography site drainage patterns can clearly be seen. Drainage to the south flows via small unnamed field ditches to a small lake approximately 2000 feet south of the site. The lake appears to drain into another small lake which is located 200 feet southwest of the first lake. The second lake drains via intermittent stream to an unnamed perennial stream which flows south along the Chicago and Northwestern and the Norfolk and Western railroad tracks. The perennial stream flows into Judys Branch and then to the Cahokia Canal and into the Mississippi River. Drainage from the western portion of the site flows via a field ditch west-southwest to an intermittent stream, immediately adjacent to and paralleling the railroad tracks mentioned, which joins the intermittent stream draining the south portion of the site. The joining of these two intermittent streams form the perennial stream mentioned above. The perennial stream is formed approximately 5000 feet downstream of the site. This

point is identified as the probable point of entry (PPE) to surface water for the drainage pattern from the western portion of the site. The PPE to surface water for the drainage pattern from the southern portion of the site is located at the point where the field ditch enters the small lake 2000 feet (.38 miles) south of the site. The distance from the PPE at the lake to the PPE located at the beginning of the perennial stream is estimated to be 3700 feet (0.7 miles). The perennial stream flows 1.8 miles south from the stream PPE to where it joins Judys Branch. Judys Branch flows west-southwest for 2.7 miles where it joins the Cahokia Canal. The Cahokia Canal then flows south and west for the remaining 10.5 miles of the 15-mile in-water segment (reference 15-mile surface water route map). There are no surface water intakes along the 15-mile in-water segment of these surface water bodies. Fisheries have been identified to be from both PPEs to the end of the 15-mile in-water segment. Wetlands exist: as lakes downstream of the PPE at the lake south of the site, described as palustrian, unconsolidated bottom, intermittently exposed, diked impoundments; along the unnamed perennial stream (downstream of the stream PPE), Judys Branch and the Cahokia Canal as riverine, lower perennial, unconsolidated bottom, permanently flooded environments and along and outside of one or both banks of the Cahokia Canal as palustrian, emergent, semipermanently flooded environments. Kettle River Treating Company is not located in a flood plain area.

5.4 SOIL EXPOSURE

Soil samples taken during the Site Investigation were obtained from ten locations on-site and one off-site (background). Sample results indicate an observed release to the soil exposure pathway by contaminants that are attributable to the sites' former activities. Compounds found three times background concentrations or above detection limits from this sampling effort are considered valid as a confirmed release to the soil exposure pathway (reference Tables 3-1 and 3-2). Contributing factors to this contamination have been discussed previously.

There are no schools or daycare facilities on-site or within 200 feet of contaminated areas. There are approximately 6 persons living within 200 feet of the contaminated sediment located in the sites' southern drainage route. There are approximately 20 commercial businesses located on the former site property employing about 150 people. The Edwardsville Regional Office of the Illinois Department of Public Health is also located on the former site property employing approximately 100 people. During excavation prior to construction of the businesses mentioned there were no reports of any visual anomalies or foul or noxious odors. Irregardless of the lack of reports indicating irregular soil content etc., evidence obtained via site sampling indicates soil contamination on-site. Persons performing the above excavation/construction tasks have a high potential for contact of waste, contaminated soil and

inhalation of contaminated air. Persons employed at businesses on-site and present daily are also subject to the same risks. Based on the April 21, 1992 site investigation, contaminants are located between ground surface and two feet in depth. If further studies are completed on this site these figures may change. Nearby population within one mile of Kettle River Treating Company has been calculated to be 3796 and listed in Table 5-2. The population count was determined by referencing the 1990 U.S. Census and USGS topographic map for the area surrounding the facility. Where census information was not available, use of 2.63 persons per household average for Madison County was applied.

Table 5-2

Nearby population within one mile of the site

| <u>Distance</u> | <u>Population</u> |
|-----------------|-------------------|
| 0 - 1/4 mile | 26 |
| 1/4 - 1/2 mile | 89 |
| 1/2 - 1 mile | 3681 |

5.5 AIR ROUTE

During the April 1992 Site Investigation there were no formal air samples collected. However, an HNU photoionization detector with an 11.7 eV lamp was utilized to screen ambient air around the site, air in the breathing zone at each sample point and the sample as it was taken. Background readings registered 1 - 2 meter units. The

highest reading registered was 5 units when monitoring X101. There are no records, reports or complaints of air releases from the site.

Within a 4-mile radius of the site the population is calculated to be approximately 22,015 persons. The nearest individual and regularly occupied building is located on-site, the Edwardsville Bargain Center in the northeast corner of the former site. The approximate number of individuals potentially exposed to air-borne particulates are listed in Table 5-3. The potential for wind blown particulates to carry contaminants off-site is possible since these contaminants have been found in the top six inches of soil on-site. Sensitive environments within four miles of Kettle River Treating Company consist of wetlands which have been described previously in this report.

Table 5-3

Individuals potentially exposed to air-borne contaminants

| <u>Distance</u> | <u>Population</u> |
|-----------------|-------------------|
| On-site | 256 |
| 0 - 1/4 mile | 26 |
| 1/4 - 1/2 mile | 89 |
| 1/2 - 1 mile | 3681 |
| 1 - 2 miles | 8255 |
| 2 - 3 miles | 5346 |
| 3 - 4 miles | 4354 |

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APPENDIX A
SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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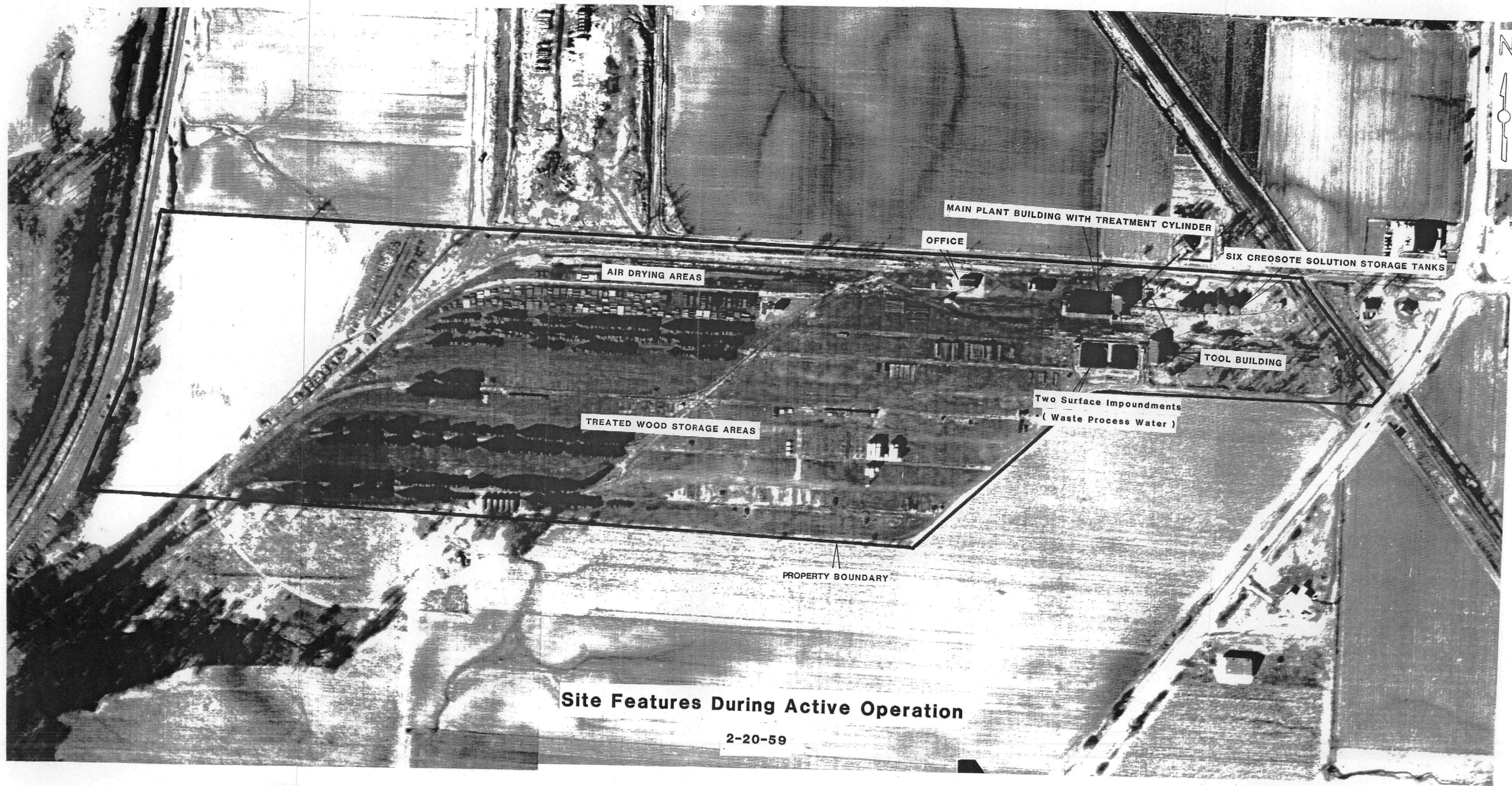
Specify Type of Document(s) / Comments:

Appendix A- site 4-mile radius map; Appendix B- site surface water route map

Document is available at the EPA Region 5 Records Center.

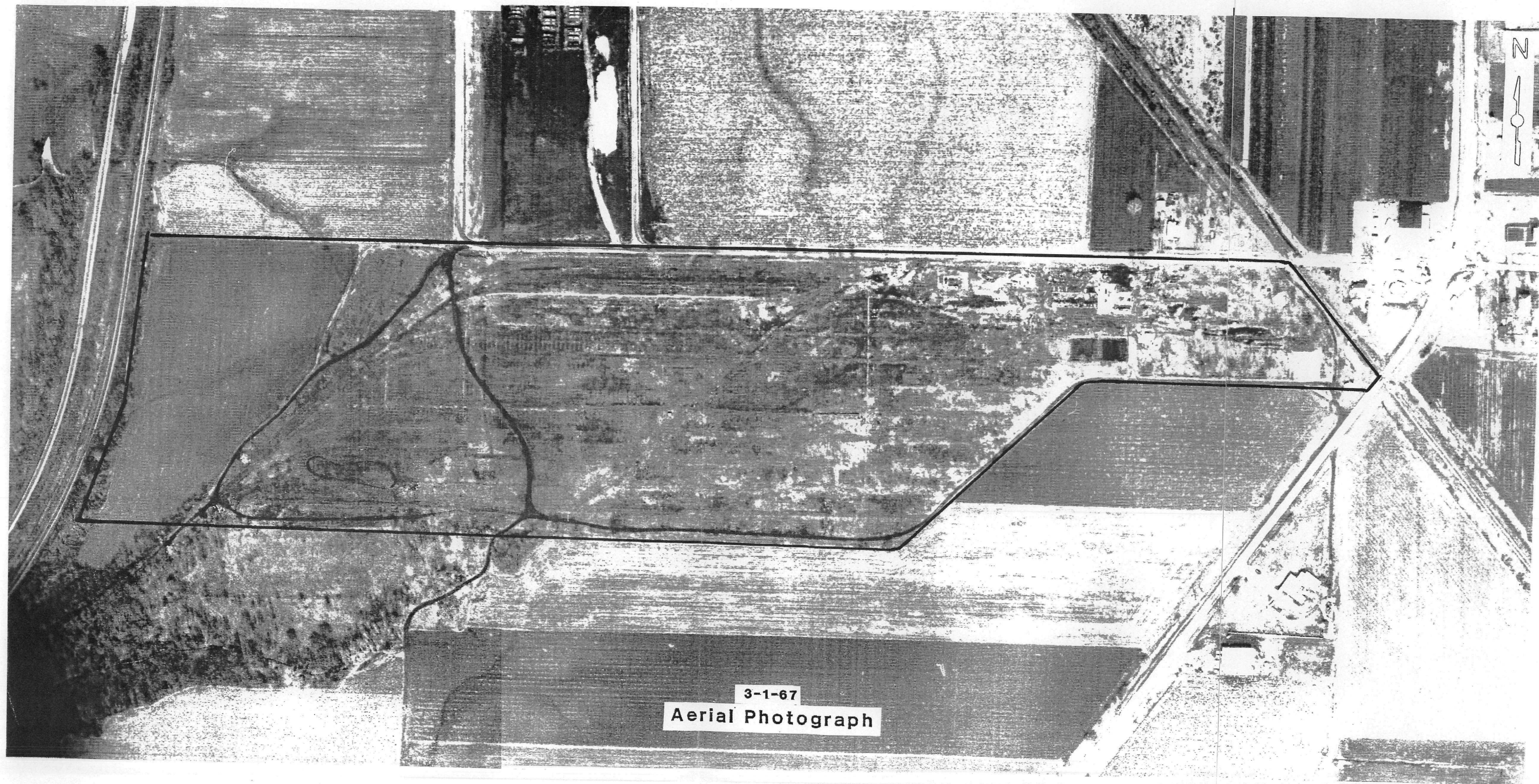
Specify Type of Document(s) / Comments:

APPENDIX B
SITE SURFACE WATER ROUTE



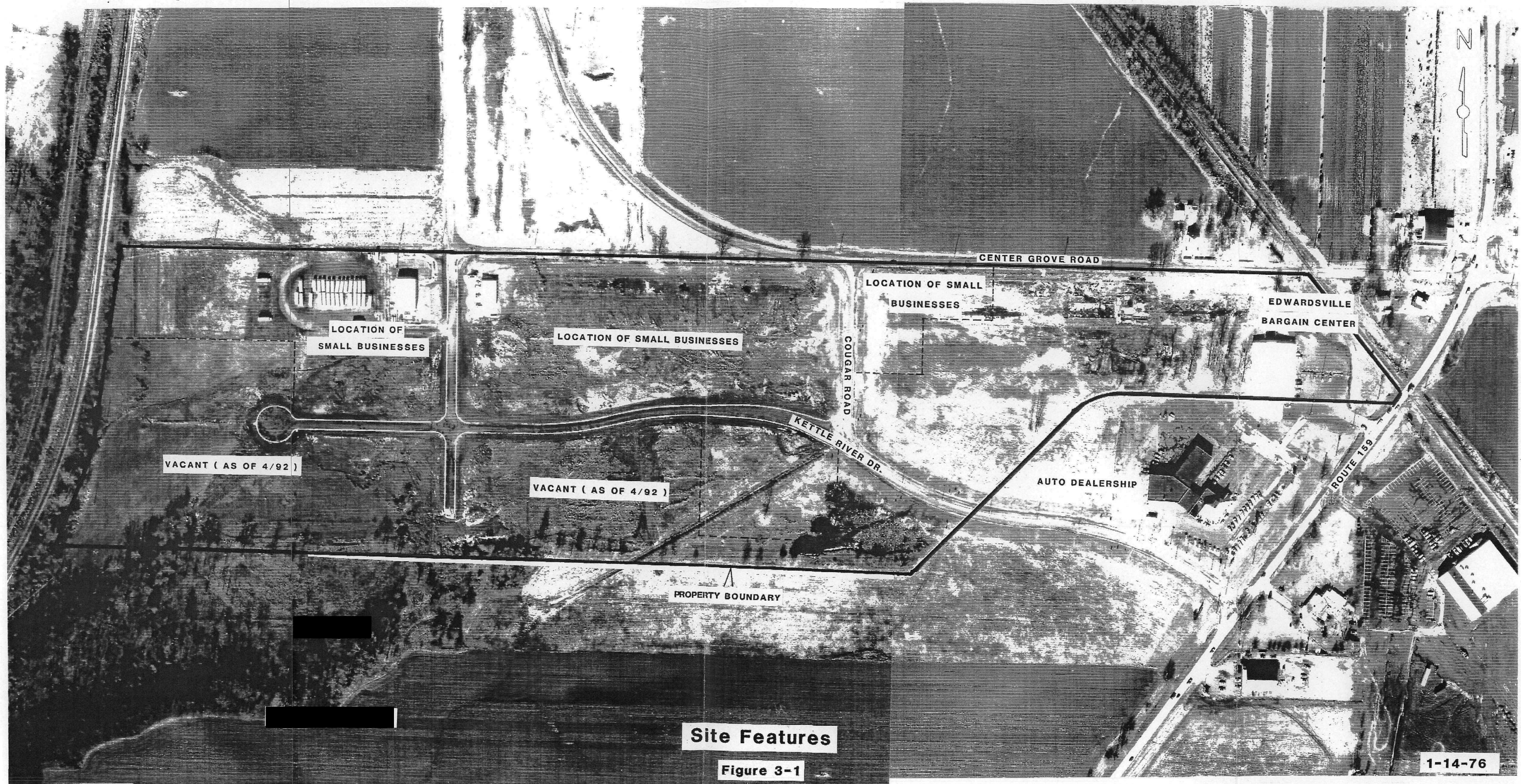
Site Features During Active Operation

2-20-59



3-1-67

Aerial Photograph



Site Features

Figure 3-1

1-14-76

APPENDIX C
U.S. EPA FORM 2070-13



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984791665

II. SITE NAME AND LOCATION

| | | | | | |
|---|--|--|----------------------|----------------------|-----------------------|
| 01 SITE NAME (Legal, common, or descriptive name of site) KETLE RIVER TREATING COMPANY | | 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER CENTER GROVE ROAD & ROUTE 159 | | | |
| 03 CITY EDWARDSVILLE | | 04 STATE IL | 05 ZIP CODE 62025 | 06 COUNTY MADISON | 07 COUNTY CODE 119 |
| 09 COORDINATES LATITUDE LONGITUDE | | 10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER | | | |

III. INSPECTION INFORMATION

| | | |
|--|---|--|
| 01 DATE OF INSPECTION 4/21/92 MONTH DAY YEAR | 02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE | 03 YEARS OF OPERATION 1925 1960 BEGINNING YEAR ENDING YEAR |
| 04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER | | |

| | | | |
|--|---------------------|------------------------------|----------------------------------|
| 05 CHIEF INSPECTOR KENNETH W. CORKILL | 06 TITLE EPS III | 07 ORGANIZATION IEPA/RPMS | 08 TELEPHONE NO. 217-782-6760 |
| 09 OTHER INSPECTORS TIM MURPHY | 10 TITLE | 11 ORGANIZATION " " | 12 TELEPHONE NO. () " |
| GREG SPENCER | | " " | () " |
| KIM NIKA | | " " | () " |
| | | | () |
| | | | () |
| 13 SITE REPRESENTATIVES INTERVIEWED | 14 TITLE OWNER | 15 ADDRESS | 16 TELEPHONE NO. () |
| | | | () |
| | | | () |
| | | | () |
| | | | () |
| | | | () |
| | | | () |

| | | |
|--|----------------------------------|--|
| 17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT | 18 TIME OF INSPECTION 8:00 AM | 19 WEATHER CONDITIONS PARTLY CLOUDY TO OVERCAST - 40-45°F - WIND - NW 1-5 |
|--|----------------------------------|--|

IV. INFORMATION AVAILABLE FROM

| | | |
|--|--|--------------------------------------|
| 01 CONTACT KENNETH W. CORKILL | 02 OF (Agency/Organization) IEPA - RPMS | 03 TELEPHONE NO. 217-782-6760 |
| 04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM KENNETH W. CORKILL | 05 AGENCY IEPA | 06 ORGANIZATION RPMS |
| | 07 TELEPHONE NO. (217) 782-6760 | 08 DATE 9/20/92 MONTH DAY YEAR |



☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

- PRELIMINARY ASSESSMENT OF KETTER RIVER TREATING CO.
- USGS BULLETIN 95
- I.S.W.S. PUBLIC GROUNDWATER SUPPLIES FOR MADISON CO.
- IEPA SITE INVESTIGATION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
14D 984791665

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 22,015 04 NARRATIVE DESCRIPTION

REFERENCE PAGE 6+7 SECTION 5.2
SI REPORT:

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 4-21-92) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN 04 NARRATIVE DESCRIPTION

PAGE 6+7, 12+13, SECTION 5.3
TABLES 3-1 + 3-2

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 22,015 04 NARRATIVE DESCRIPTION

PAGE 6+7 36+37

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,796 04 NARRATIVE DESCRIPTION

PAGE 35+36

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 4-21-92) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 80 04 NARRATIVE DESCRIPTION
(Acres)

PAGE 6+7, SECTION 3.4 SI REPORT, SECTION 4.2, SECTION 5.4
TABLES 3-1 + 3-2

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 700 04 NARRATIVE DESCRIPTION

PAGE 28-32

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: UNKNOWN 04 NARRATIVE DESCRIPTION

PAGE 35+36

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 22,015 04 NARRATIVE DESCRIPTION

PAGES AS IN "F"



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
14D 984791665

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

POTENTIAL EXISTS DUE TO CONTAMINANTS IN SOIL

01 ☒ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include names) of species

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

POTENTIAL EXISTS DUE TO CONTACT WITH CONTAMINANTS & INGESTION OF CONTAMINANTS.

01 ☒ L. CONTAMINATION OF FOOD CHAIN

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

AS A RESULT OF THE ABOVE "J" & "K"

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills/Runoff/Standing liquids, Leaking drums)

03 POPULATION POTENTIALLY AFFECTED: 22,015

02 ☐ OBSERVED (DATE: 4-21-92)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

REFERENCE "F"

01 ☒ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

PAGES 25-27

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 22,015

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

- REFERENCE PART 2 - VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
11D 984791665

II. PERMIT INFORMATION

| 01 TYPE OF PERMIT ISSUED (Check all that apply) | 02 PERMIT NUMBER | 03 DATE ISSUED | 04 EXPIRATION DATE | 05 COMMENTS |
|--|------------------|----------------|--------------------|-------------|
| <input type="checkbox"/> A. NPDES | | | | |
| <input type="checkbox"/> B. UIC | | | | |
| <input type="checkbox"/> C. AIR | | | | |
| <input type="checkbox"/> D. RCRA | | | | |
| <input type="checkbox"/> E. RCRA INTERIM STATUS | | | | |
| <input type="checkbox"/> F. SPCC PLAN | | | | |
| <input type="checkbox"/> G. STATE (Specify) | | | | |
| <input type="checkbox"/> H. LOCAL (Specify) | | | | |
| <input type="checkbox"/> I. OTHER (Specify) | | | | |
| <input checked="" type="checkbox"/> J. NONE | | | | |

III. SITE DESCRIPTION

| 01 STORAGE/DISPOSAL (Check all that apply) | 02 AMOUNT | 03 UNIT OF MEASURE | 04 TREATMENT (Check all that apply) | 05 OTHER |
|--|-----------|--------------------|--|--|
| <input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT | 574,470 | GAL. | <input type="checkbox"/> A. INCINERATION | <input checked="" type="checkbox"/> A. BUILDINGS ON SITE |
| <input type="checkbox"/> B. PILES | | | <input type="checkbox"/> B. UNDERGROUND INJECTION | |
| <input type="checkbox"/> C. DRUMS, ABOVE GROUND | | | <input type="checkbox"/> C. CHEMICAL/PHYSICAL | |
| <input checked="" type="checkbox"/> D. TANK, ABOVE GROUND | 46,650 | GAL. | <input type="checkbox"/> D. BIOLOGICAL | |
| <input type="checkbox"/> E. TANK, BELOW GROUND | | | <input type="checkbox"/> E. WASTE OIL PROCESSING | |
| <input type="checkbox"/> F. LANDFILL | | | <input type="checkbox"/> F. SOLVENT RECOVERY | |
| <input type="checkbox"/> G. LANDFARM | | | <input type="checkbox"/> G. OTHER RECYCLING/RECOVERY | |
| <input type="checkbox"/> H. OPEN DUMP | | | <input type="checkbox"/> H. OTHER (Specify) | |
| <input type="checkbox"/> I. OTHER (Specify) | | | | |

06 AREA OF SITE
80 (Acres)

07 COMMENTS

REFERENCE SI REPORT

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

REFERENCE SI REPORT

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2-VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984791665

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☐ B. ☒
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☐
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 24 (mi)
B. .47 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 700

03 DISTANCE TO NEAREST DRINKING WATER WELL _____ (mi)

04 GROUNDWATER

20 (ft)

05 DIRECTION OF GROUNDWATER FLOW

UNKNOWN

06 DEPTH TO AQUIFER OF CONCERN

20 (ft)

07 POTENTIAL YIELD OF AQUIFER

UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER

☒ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

REFERENCE SI REPORT

10 RECHARGE AREA

☐ YES
☐ NO

COMMENTS

UNKNOWN

11 DISCHARGE AREA

☐ YES
☐ NO

COMMENTS

UNKNOWN

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

LAKEWOOD SUBDIVISION LAKE
UNNAMED PERENNIAL STREAM
JUDYS BRANCH

☐ .38 (mi)
☐ .7 (mi)
☐ 1.8 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. 4052
NO. OF PERSONS

TWO (2) MILES OF SITE
B. 12,307
NO. OF PERSONS

THREE (3) MILES OF SITE
C. 17,653
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

100 FT (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

04 DISTANCE TO NEAREST OFF-SITE BUILDING

100 FT (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

REFERENCE SI REPORT



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
11D 984791665

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec
VARIES

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

74 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

2 (ft)

05 SOIL pH

UNKNOWN

06 NET PRECIPITATION

.5 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.8 (in)

08 SLOPE
SITE SLOPE

0-1 %

DIRECTION OF SITE SLOPE

SOUTH + WEST

TERRAIN AVERAGE SLOPE

0-5 %

09 FLOOD POTENTIAL

SITE IS IN >100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. _____ (mi)

B. .38 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 0 (mi)

B. 100 FT (mi)

C. .25 (mi)

D. .25 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

REFERENCE SI REPORT 4 FIGURE 2-2.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VII



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984791665

II. SAMPLES TAKEN

| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKEN | 02 SAMPLES SENT TO | 03 ESTIMATED DATE RESULTS AVAILABLE |
|----------------|----------------------------|--|-------------------------------------|
| GROUNDWATER | | | |
| SURFACE WATER | | | |
| WASTE | | | |
| AIR | | | |
| RUNOFF | | | |
| SPILL | | | |
| SOIL | 11 | IEPA SPRINGFIELD LAB - ORGANIC SAMPLE | 7-92 |
| VEGETATION | | ANALYSIS, IEPA CHAMPAIGN LAB - INORGANIC | |
| OTHER SEDIMENT | 3 | ANALYSIS. | |

III. FIELD MEASUREMENTS TAKEN

| 01 TYPE | 02 COMMENTS |
|---------------------------------------|--|
| AMBIENT AIR & MONITORING OF SAMPLING. | FORMAL AIR SAMPLES WERE NOT TAKEN, HOWEVER, AMBIENT AIR IN THE BREATHING ZONE AND IMMEDIATELY AT THE SAMPLE POINT WAS MONITORED USING A HNU PHOTOIONIZATION DETECTOR |

IV. PHOTOGRAPHS AND MAPS

| | |
|---|--|
| 01 TYPE <input checked="" type="checkbox"/> GROUND <input checked="" type="checkbox"/> AERIAL | 02 IN CUSTODY OF IEPA <small>(Name of organization or individual)</small> |
| 03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | 04 LOCATION OF MAPS IEPA, 2200 CHURCHILL RD., SPRINGFIELD IL. |

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

REFERENCE SI REPORT

PAGES 10-12, 23 & 24, 35 & 36 APPENDIX F

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VII



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 984791665

| II. CURRENT OWNER(S) | | | | PARENT COMPANY (If applicable) | | | |
|--|--|----------------|----------------------|---|--|---------------|-------------|
| 01 NAME SEE BELOW (V) | | 02 D+B NUMBER | | 08 NAME | | 09 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 11 SIC CODE | |
| 05 CITY | | 06 STATE | 07 ZIP CODE | 12 CITY | | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | | 08 NAME | | 09 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 11 SIC CODE | |
| 05 CITY | | 06 STATE | 07 ZIP CODE | 12 CITY | | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | | 08 NAME | | 09 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 11 SIC CODE | |
| 05 CITY | | 06 STATE | 07 ZIP CODE | 12 CITY | | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | | 08 NAME | | 09 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 11 SIC CODE | |
| 05 CITY | | 06 STATE | 07 ZIP CODE | 12 CITY | | 13 STATE | 14 ZIP CODE |
| III. PREVIOUS OWNER(S) (List most recent first) | | | | IV. REALTY OWNER(S) (If applicable: list most recent first) | | | |
| 01 NAME AMERICAN CREOSOTING CO. | | 02 D+B NUMBER | | 01 NAME | | 02 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) WASHINGTON AVE | | 04 SIC CODE | | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | |
| 05 CITY MADISON | | 06 STATE IL | 07 ZIP CODE 62060 | 05 CITY | | 06 STATE | 07 ZIP CODE |
| 01 NAME KETTLE RIVER TREATING CO. | | 02 D+B NUMBER | | 01 NAME | | 02 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) WASHINGTON AVE | | 04 SIC CODE | | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | |
| 05 CITY MADISON | | 06 STATE IL | 07 ZIP CODE 62060 | 05 CITY | | 06 STATE | 07 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | | 01 NAME | | 02 D+B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | |
| 05 CITY | | 06 STATE | 07 ZIP CODE | 05 CITY | | 06 STATE | 07 ZIP CODE |
| V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports) | | | | | | | |
| THE PROPERTY FORMERLY CALLED KETTLE RIVER TREATING CO. HAS SINCE BEEN SOLD IN NUMEROUS PARCELS. REFERENCE SI REPORT. | | | | | | | |



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 984791665

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

| | | | | | |
|---|------------------|---|---------------|----------|-------------|
| 01 NAME <i>SAME AS OWNER</i> | 02 D+B NUMBER | 10 NAME | 11 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD #, etc.) | 13 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER | | | | |

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

| | | | | | |
|---|-------------------------------------|---|---------------|----------|-------------|
| 01 NAME <i>SAME AS OWNER</i> | 02 D+B NUMBER | 10 NAME | 11 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD #, etc.) | 13 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER DURING THIS PERIOD | | | | |

| | | | | | |
|---|-------------------------------------|---|---------------|----------|-------------|
| 01 NAME | 02 D+B NUMBER | 10 NAME | 11 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD #, etc.) | 13 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER DURING THIS PERIOD | | | | |

| | | | | | |
|---|-------------------------------------|---|---------------|----------|-------------|
| 01 NAME | 02 D+B NUMBER | 10 NAME | 11 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD #, etc.) | 13 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER DURING THIS PERIOD | | | | |

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE SI REPORT



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

ILD 98479/665

II. ON-SITE GENERATOR

| | |
|---|-----------------------------|
| 01 NAME KETTLE RIVER TREATING CO | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) CENTER GROVE ROAD & ROUTE 159 | 04 SIC CODE |
| 05 CITY EDWARDSVILLE | 06 STATE IL |
| | 07 ZIP CODE 62025 |

III. OFF-SITE GENERATOR(S)

| | | | |
|---|---------------|---|---------------|
| 01 NAME NONE | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY |
| | | | 06 STATE |
| | | | 07 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY |
| | | | 06 STATE |
| | | | 07 ZIP CODE |

IV. TRANSPORTER(S)

| | | | |
|---|---------------|---|---------------|
| 01 NAME NONE | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY |
| | | | 06 STATE |
| | | | 07 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY |
| | | | 06 STATE |
| | | | 07 ZIP CODE |

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE SI REPORT



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 98A 791665

II. PAST RESPONSE ACTIVITIES

| | | | |
|---|-----|---------------|-----------------|
| 01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION | N/A | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION | | 02 DATE _____ | 03 AGENCY _____ |



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 984791665

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2-VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 984791665

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VII

APPENDIX D
TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

| | |
|----------------------------|---------------------------|
| Chloromethane | 1,2-Dichloropropane |
| Bromomethane | cis-1,3-Dichloropropene |
| Vinyl Chloride | Trichloroethene |
| Chloroethane | Dibromochloromethane |
| Methylene Chloride | 1,1,2-Trichloroethane |
| Acetone | Benzene |
| Carbon Disulfide | trans-1,3-Dichloropropene |
| 1,1-Dichloroethene | Bromoform |
| 1,1-Dichloroethane | 4-Methyl-2-pentanone |
| 1,2-Dichloroethene (total) | 2-Hexanone |
| Chloroform | Tetrachloroethene |
| 1,2-Dichloroethane | 1,1,2,2-Tetrachloroethane |
| 2-Butanone | Toluene |
| 1,1,1-Trichloroethane | Chlorobenzene |
| Carbon Tetrachloride | Ethylbenzene |
| Vinyl Acetate | Styrene |
| Bromodichloromethane | Xylenes (total) |

Base/Neutral Target Compounds

| | |
|------------------------------|-----------------------------|
| Hexachloroethane | 2,4-Dinitrotoluene |
| bis(2-Chloroethyl) Ether | Diethylphthalate |
| Benzyl Alcohol | N-Nitrosodiphenylamine |
| bis(2-Chloroisopropyl) Ether | Hexachlorobenzene |
| N-Nitroso-Di-n-Propylamine | Phenanthrene |
| Nitrobenzene | 4-Bromophenyl-phenylether |
| Hexachlorobutadiene | Anthracene |
| 2-Methylnaphthalene | Di-n-Butylphthalate |
| 1,2,4-Trichlorobenzene | Fluoranthene |
| Isophorone | Pyrene |
| Naphthalene | Butylbenzylphthalate |
| 4-Chloroaniline | bis(2-Ethylhexyl) Phthalate |
| bis(2-chloroethoxy) Methane | Chrysene |
| Hexachlorocyclopentadiene | Benzo(a) Anthracene |
| 2-Chloronaphthalene | 3,3'-Dichlorobenzidene |
| 2-Nitroaniline | Di-n-Octyl Phthalate |
| Acenaphthylene | Benzo(b) Fluoranthene |
| 3-Nitroaniline | Benzo(k) Fluoranthene |
| Acenaphthene | Benzo(a) Pyrene |
| Dibenzofuran | Indeno(1,2,3-cd) Pyrene |
| Dimethyl Phthalate | Dibenz(a,h) Anthracene |
| 2,6-Dinitrotoluene | Benzo(g,h,i) Perylene |
| Fluorene | 1,2-Dichlorobenzene |
| 4-Nitroaniline | 1,3-Dichlorobenzene |
| 4-Chlorophenyl-phenylether | 1,4-Dichlorobenzene |

Acid Target Compounds

| | |
|--------------------|----------------------------|
| Benzoic Acid | 2,4,6-Trichlorophenol |
| Phenol | 2,4,5-Trichlorophenol |
| 2-Chlorophenol | 4-Chloro-3-methylphenol |
| 2-Nitrophenol | 2,4-Dinitrophenol |
| 2-Methylphenol | 2-Methyl-4,6-dinitrophenol |
| 2,4-Dimethylphenol | Pentachlorophenol |
| 4-Methylphenol | 4-Nitrophenol |
| 2,4-Dichlorophenol | |

Pesticide/PCB Target Compounds

| | |
|---------------------|--------------------|
| alpha-BHC | Endrin Ketone |
| beta-BHC | Endosulfan Sulfate |
| delta-BHC | Methoxychlor |
| gamma-BHC (Lindane) | alpha-Chlorodane |
| Heptachlor | gamma-Chlorodane |
| Aldrin | Toxaphene |
| Heptachlor epoxide | Aroclor-1016 |
| Endosulfan I | Aroclor-1221 |
| 4,4'-DDE | Aroclor-1232 |
| Dieldrin | Aroclor-1242 |
| Endrin | Aroclor-1248 |
| 4,4'-DDD | Aroclor-1254 |
| Endosulfan II | Aroclor-1260 |
| 4,4'-DDT | |

Inorganic Target Compounds

| | |
|-----------|-----------|
| Aluminum | Manganese |
| Antimony | Mercury |
| Arsenic | Nickel |
| Barium | Potassium |
| Beryllium | Selenium |
| Cadmium | Silver |
| Calcium | Sodium |
| Chromium | Thallium |
| Cobalt | Vanadium |
| Copper | Zinc |
| Iron | Cyanide |
| Lead | Sulfide |
| Magnesium | Sulfate |

APPENDIX E-1
SITE AERIAL PHOTOGRAPHS

APPENDIX E-2
IEPA SITE PHOTOS

DATE: 4-21-92

TIME: 8:20A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 1

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

WEST.

SAMPLE X101.

FROM NW CORNER OF EDWARDSVILLE

BARGAIN CENTER.



DATE: 4-21-92

TIME: 8:20A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 2

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

EAST.

SAMPLE X101.

NW CORNER OF BARGAIN CENTER.



DATE: 4-21-92

TIME: 8:45A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 3

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
EAST.

SAMPLE X102

WEST YARD OF BARGAIN CENTER



DATE: 4-21-92

TIME: 8:45A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 4

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
WEST.

SAMPLE X102. AS ABOVE.

STRUCTURES IN BACKGROUND ARE
BUSINESSES ON FORMER SITE PROPERTY.



DATE: 4-21-92

TIME: 9:10 A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 5

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
EAST.

SAMPLE X103. CENTER
GROVE RD. NORTH OF SITE. BARBAIN
CENTER IN BACKGROUND.



DATE: 4-21-92

TIME: 9:10 A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 6

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
WEST.

SAMPLE X103



DATE: 4-21-92

TIME: 9:50A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 7

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
WEST.

SAMPLE X104



DATE: 4-21-92

TIME: 9:50A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 8

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
EAST.

SAMPLE X104



DATE: 4-21-92

TIME: 10:45 A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 9

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
WEST.

SAMPLES X105 + X106.

X106 IS DUPLICATE OF X105.



DATE: 4-21-92

TIME: 10:45 A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 10

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
EAST.

SAMPLES X105 + X106.

AS ABOVE.



DATE: 4-21-92

TIME: 11:45 A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 11

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
EAST.

SAMPLE X107



DATE: 4-21-92

TIME: 11:45 A

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 12

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
WEST.

SAMPLE X107



DATE: 4-21-92

TIME: 1:45p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 13

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
NE.

SAMPLE X108. NEAR SOUTH
PROPERTY BOUNDARY



DATE: 4-21-92

TIME: 1:45p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 14

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
SW.

SAMPLE X108. AS ABOVE,
BEYOND HEDGE ROW IS NEW
SUBDIVISION.



DATE: 4-21-92

TIME: 2:30 p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 15

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

SOUTH.

SAMPLE X109. NEAR

HEDGE ROW AT SOUTH

PROPERTY BOUNDARY.



DATE: 4-21-92

TIME: 2:30 p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 16

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

N-NE.

SAMPLE X109. FROM SOUTH

PROPERTY BOUNDARY TOWARD

BUSINESSES ON OLD SITE.



DATE: 4-21-92

TIME: 3:00 p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 17

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
NE.

SAMPLE X110. OLD DUMP
AREA. PHOTO TOWARD
CENTER OF OLD SITE.



DATE: 4-21-92

TIME: 3:00 p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 18

LOCATION: MADISON CO.

ILD 984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
SW.

SAMPLE X 110, IN OLD
DUMP AREA. SW. CORNER
OF SITE.



DATE: 4-21-92

TIME: 3:20p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 19

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

E-NE.

SAMPLE X III. FROM FAR

WESTERN PORTION OF OLD SITE.

WESTERN DRAINAGE ROUTE.



DATE: 4-21-92

TIME: 3:20p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 20

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

W-SW.

SAMPLE X III. AT FAR

WESTERN EDGE OF OLD SITE.

WESTERN DRAINAGE ROUTE.



DATE: 4-21-92

TIME: 4:30 P

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 21

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
NE.

SAMPLE X112. OFF-SITE
IN SOUTHERN DRAINAGE ROUTE.

HEDGE ROW BEYOND IS SOUTH
PROPERTY LINE OF OLD SITE.



DATE: 4-21-92

TIME: 4:30p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 22

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
SW.

SAMPLE X112. AS ABOVE,
RAY HILL SUBDIVISION, SOUTH
OF SITE.



DATE: 4-21-92

TIME: 3:55 p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 23

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
NORTH.

SAMPLE X113. BACKGROUND

SAMPLE WEST OF SITE IN

COMMUNITY PARK.



DATE: 4-21-92

TIME: 4:45 p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 24

LOCATION: MADISON CO.

ILD984791665/L1190000000

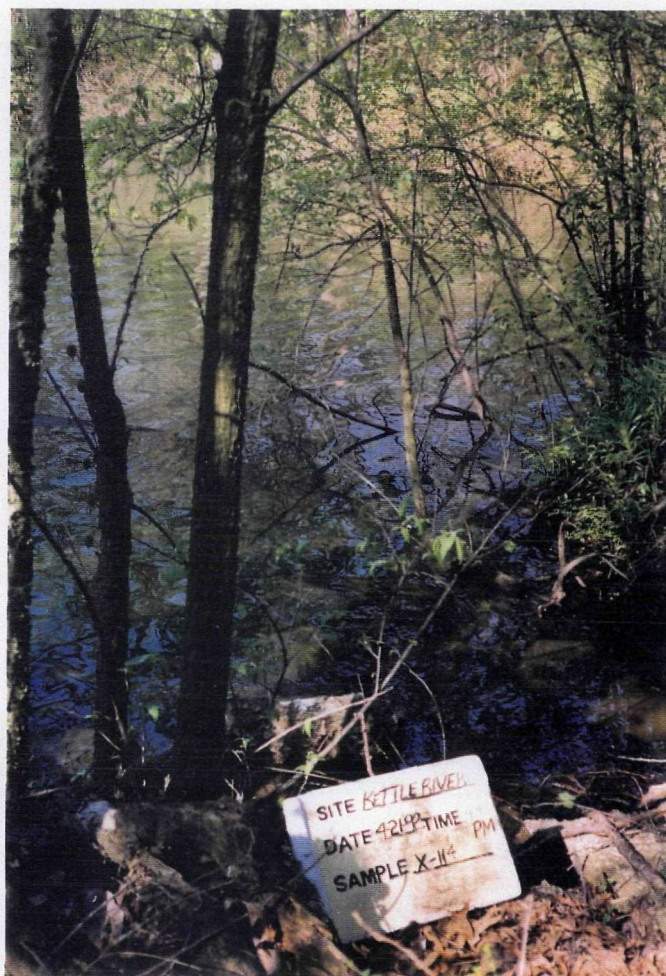
KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD
SW.

SAMPLE X114. SAMPLE FROM

NEWWOOD SUBDIVISION LAKE RECEIVING

SOUTHERN SITE DRAINAGE.



DATE: 4-21-92

TIME: 4:45p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 25

LOCATION: MADISON CO.

ILD984791665/L1190000000

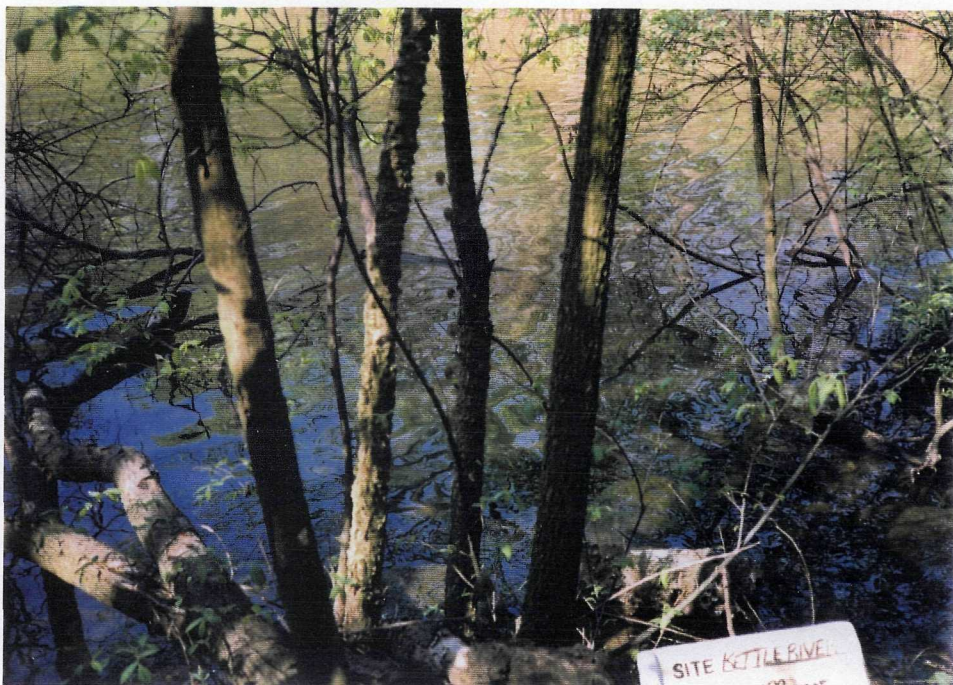
KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

SW.

SAMPLE X114

AS IN PHOTO #24



DATE: 4-21-92

TIME: 4:45p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 26

LOCATION: MADISON CO.

ILD984791665/L1190000000

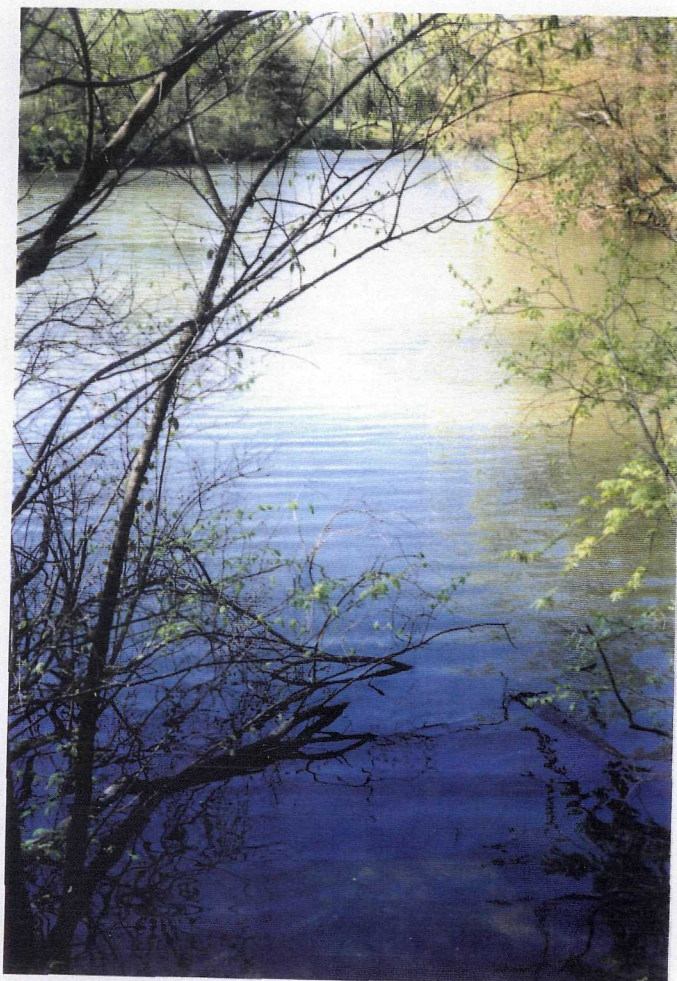
KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

SW

SAMPLE X114

PHOTO OF NORTHWEST FINGER
OF LAKE FROM SAMPLE POINT.



DATE: 4-21-92

TIME: 4:45p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 27

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

SW.

SAMPLE POINT X114.

AS IN PREVIOUS PHOTOS.



DATE: 4-21-92

TIME: 4:45p

PHOTOGRAPH TAKEN BY:

K. CORKILL

PHOTO NUMBER: 28

LOCATION: MADISON CO.

ILD984791665/L1190000000

KETTLE RIVER CREOSOTE

COMMENTS: PICTURE TAKEN TOWARD

SW.

SAMPLE POINT X114 + LAKE.

FROM DRIVEWAY OF HOMEOWNER

AT LEFT OF PHOTO.



APPENDIX E-3
AREA WELL LOGS

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DR. _____RS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10.

REMARKS:

FROM MEMORY

Reference
Number 10

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DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

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This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

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WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

REMARKS:

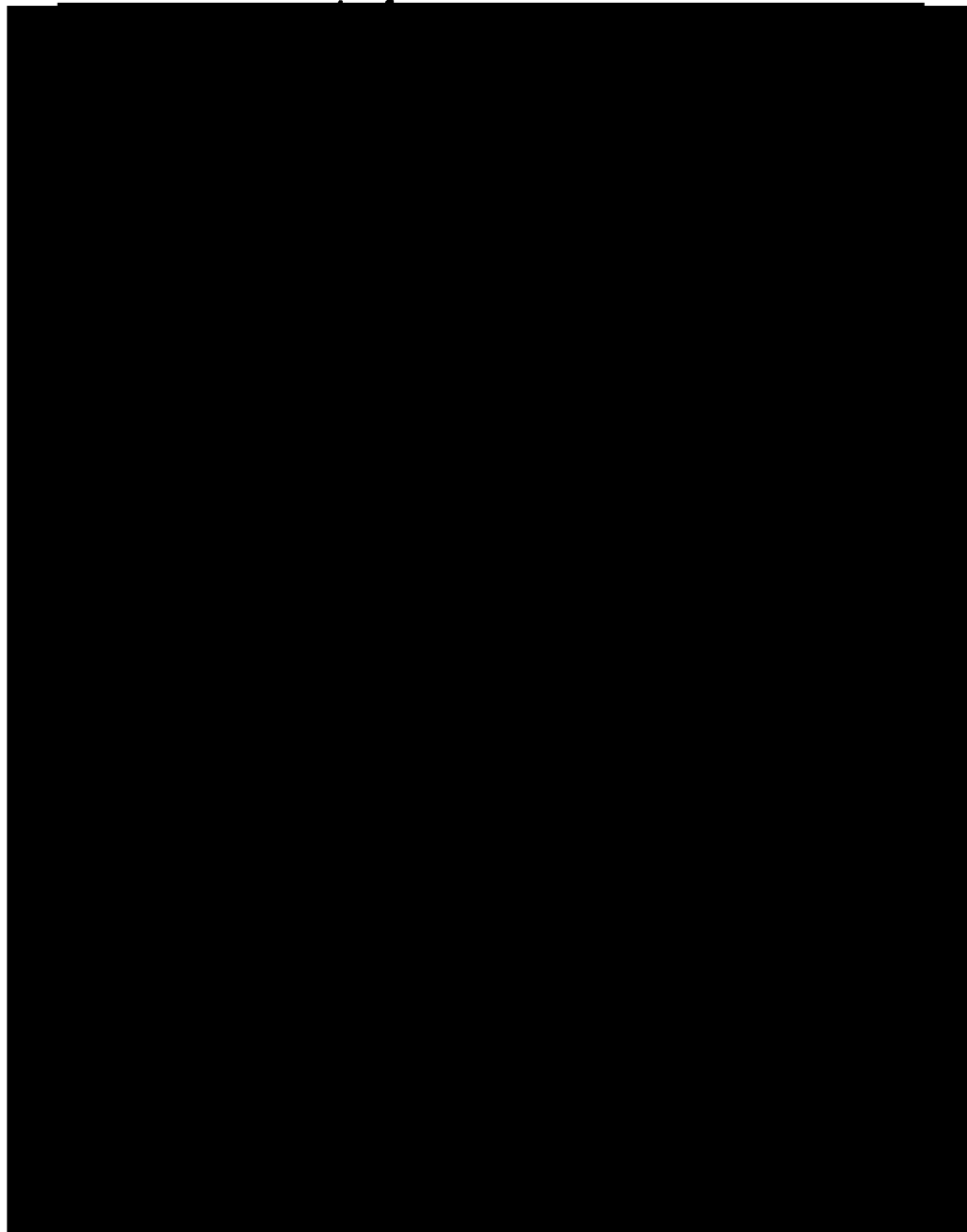
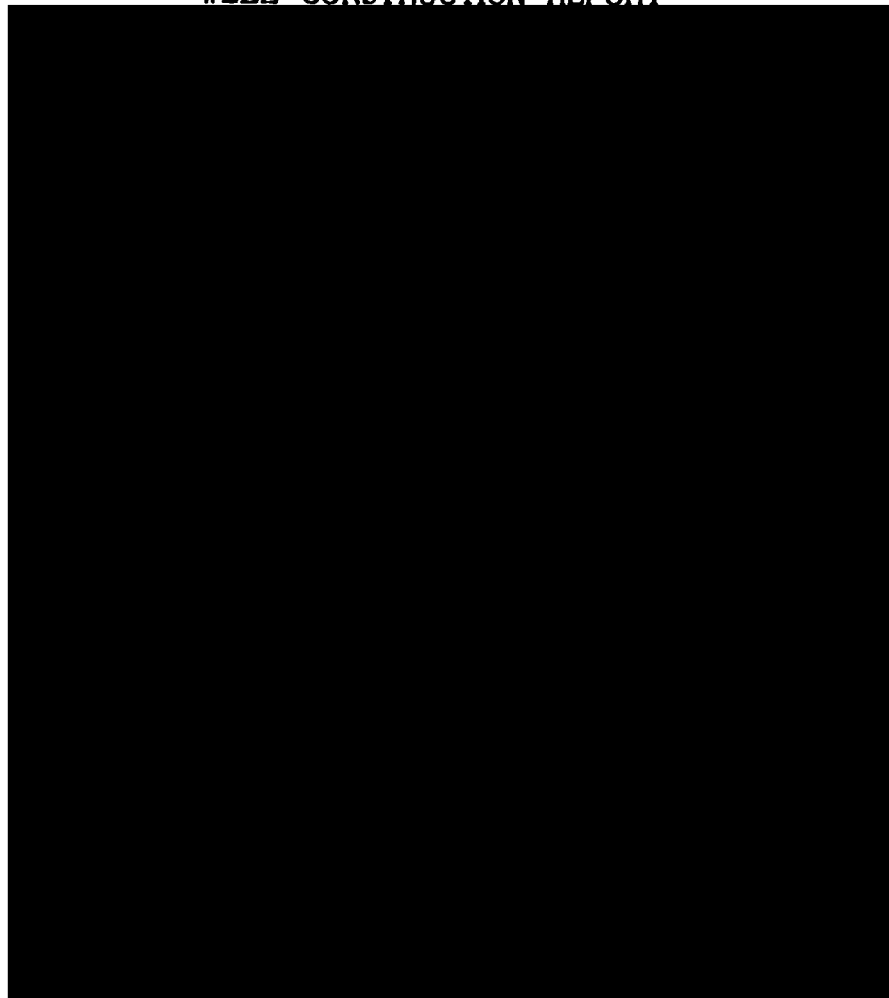
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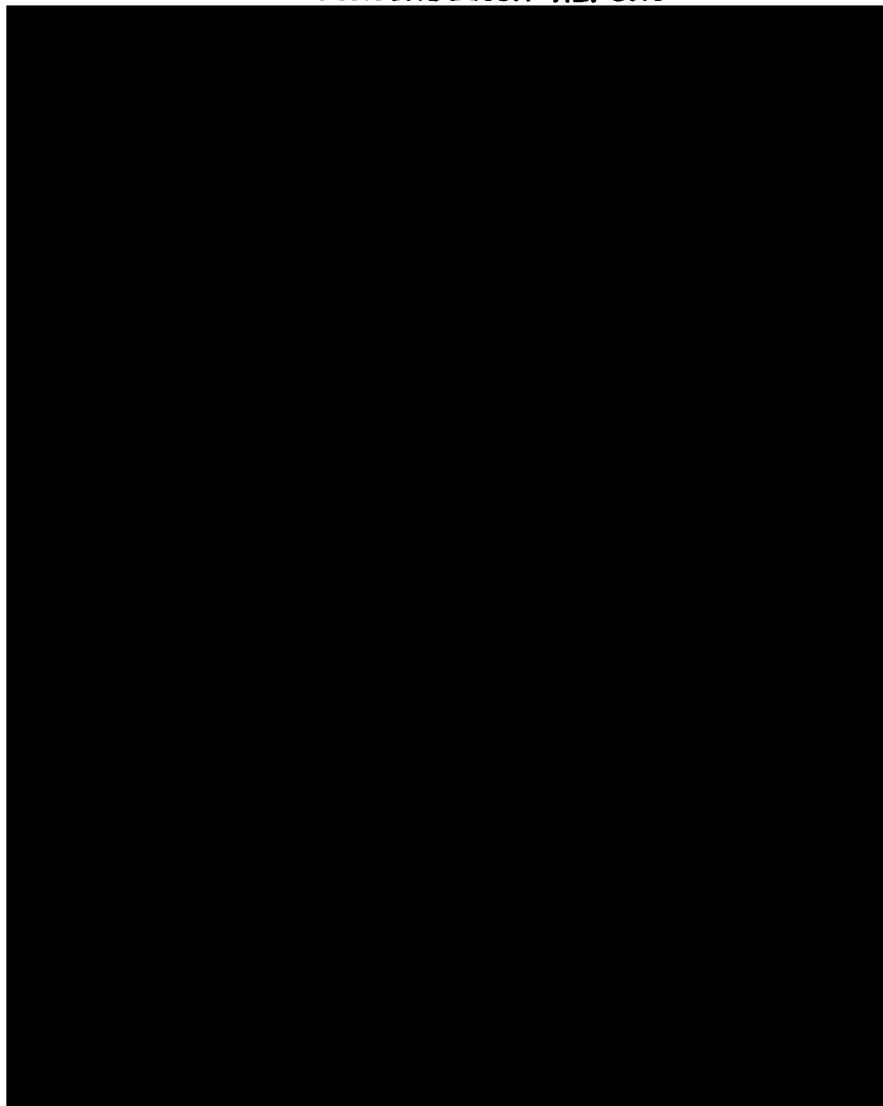
IDPH 4.065
10/68

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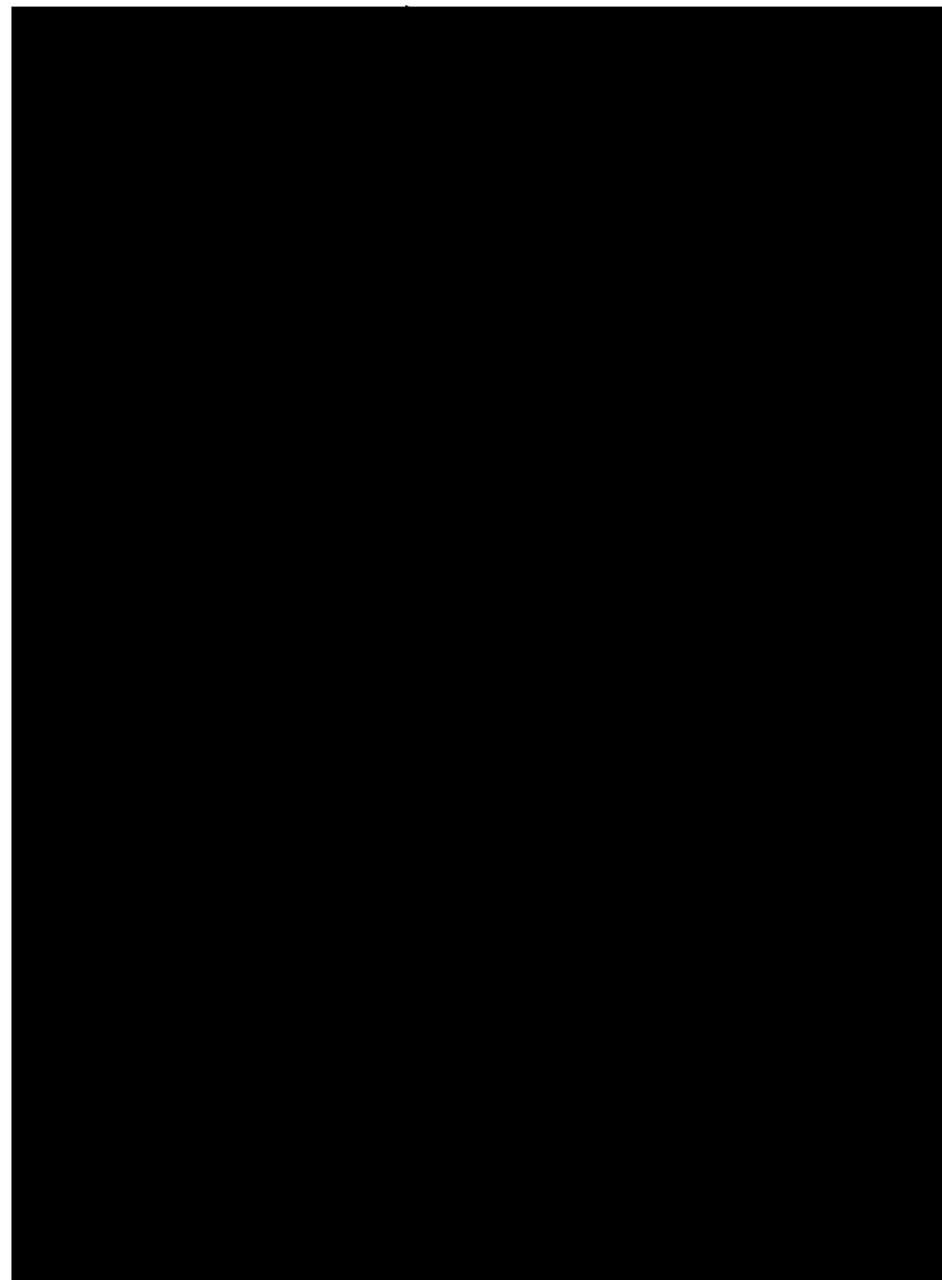
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GEOLOGICAL AND WATER SURVEYS WELL RECORD



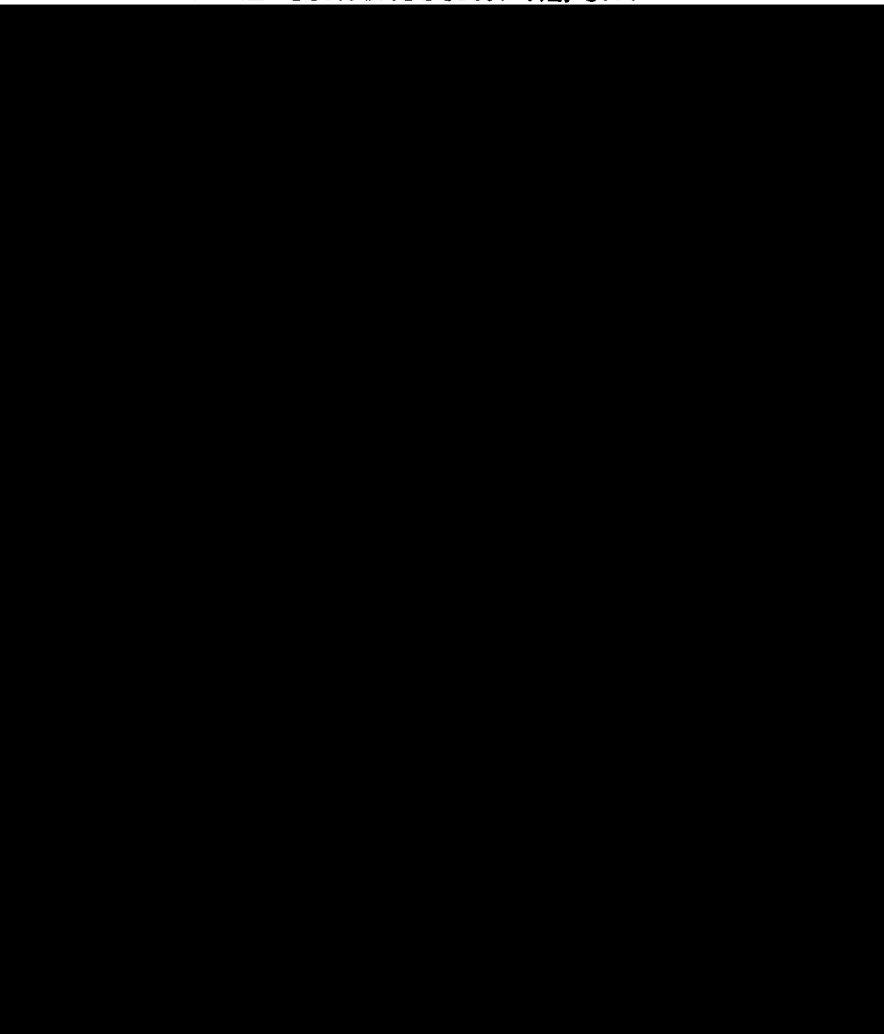
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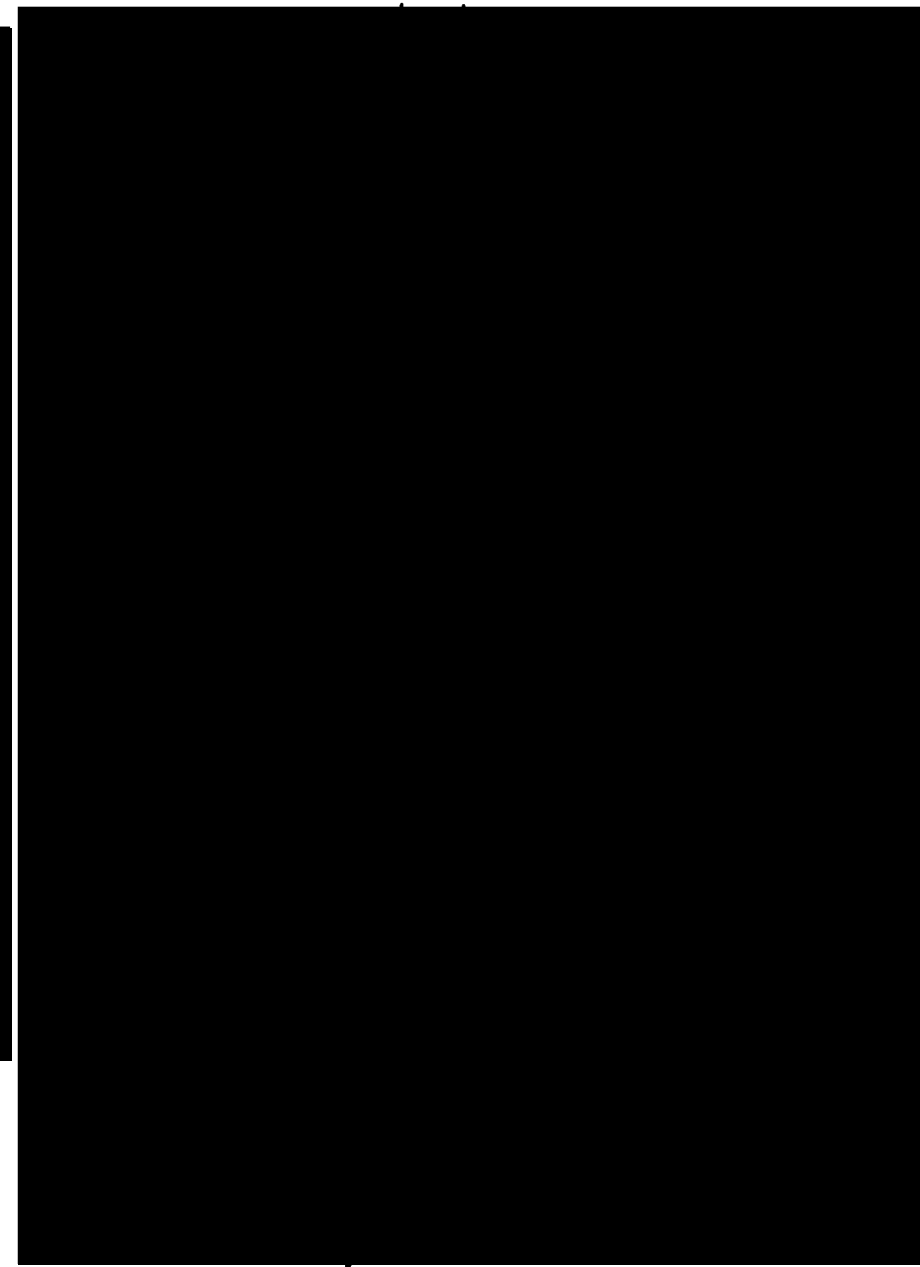
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GEOLOGICAL AND WATER SURVEYS WELL RECORD



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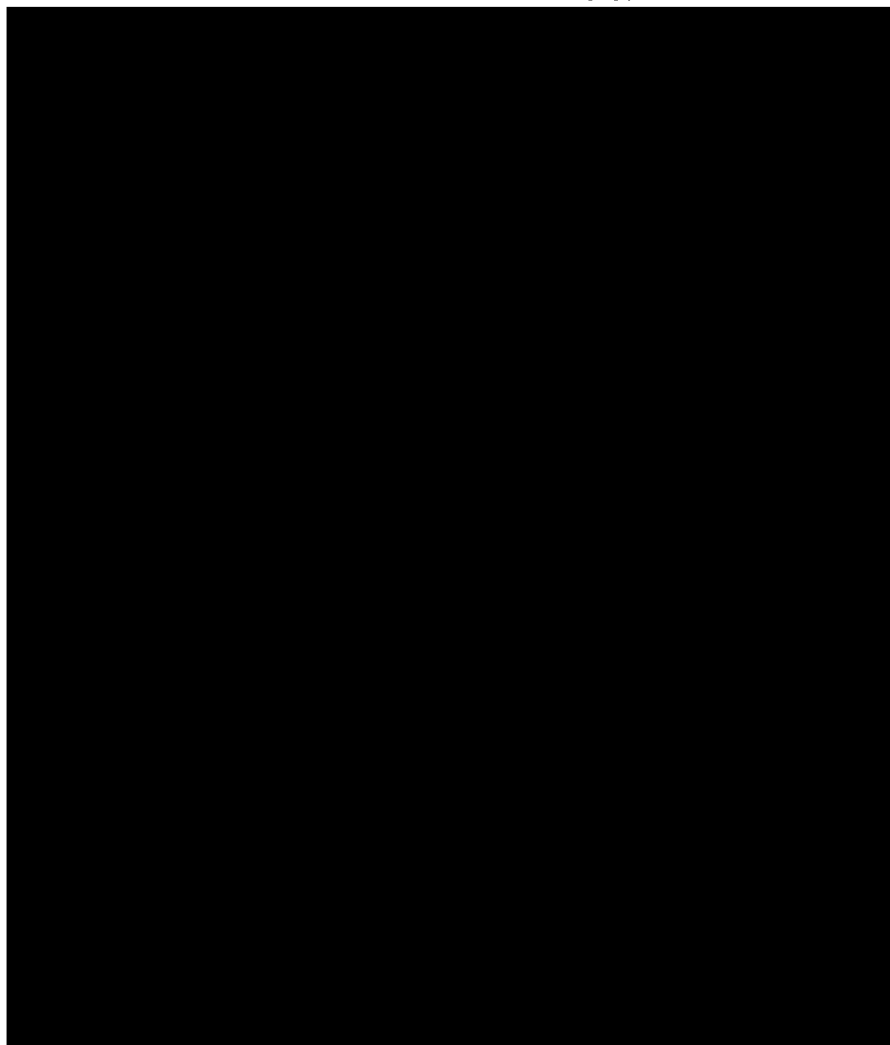
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INSTRUCTIONS TO WELLERS

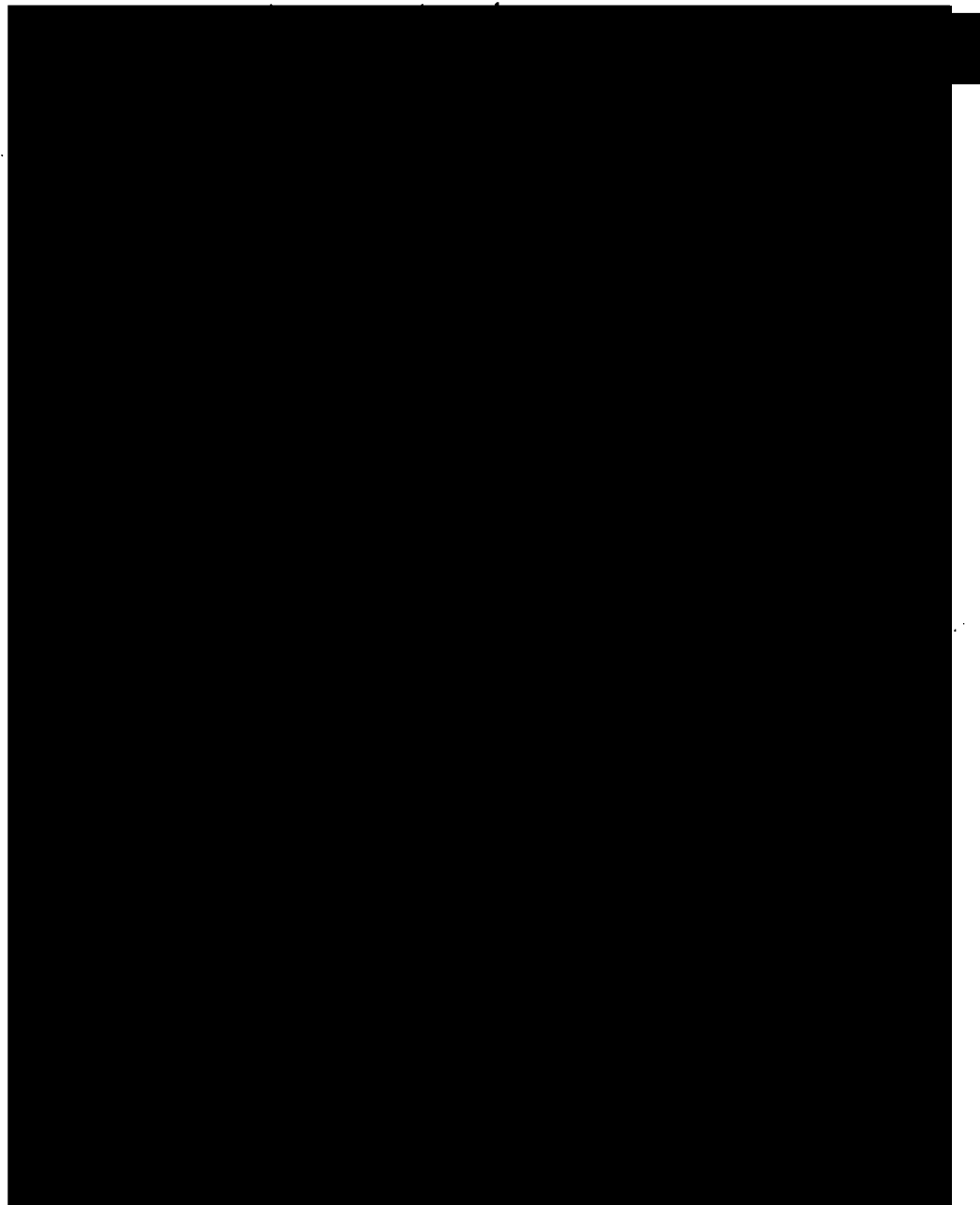
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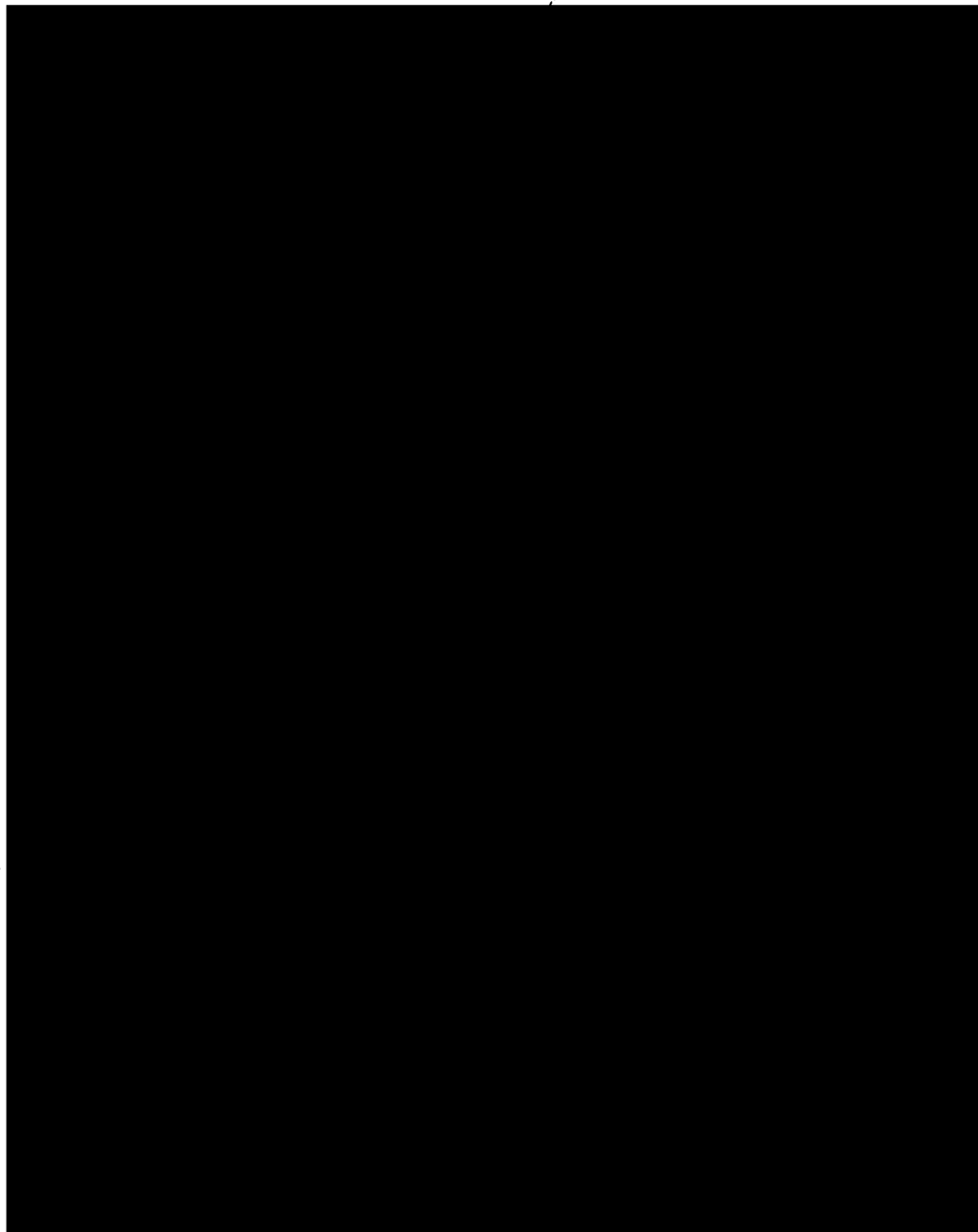
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GEOLOGICAL AND WATER SURVEYS WELL RECORD



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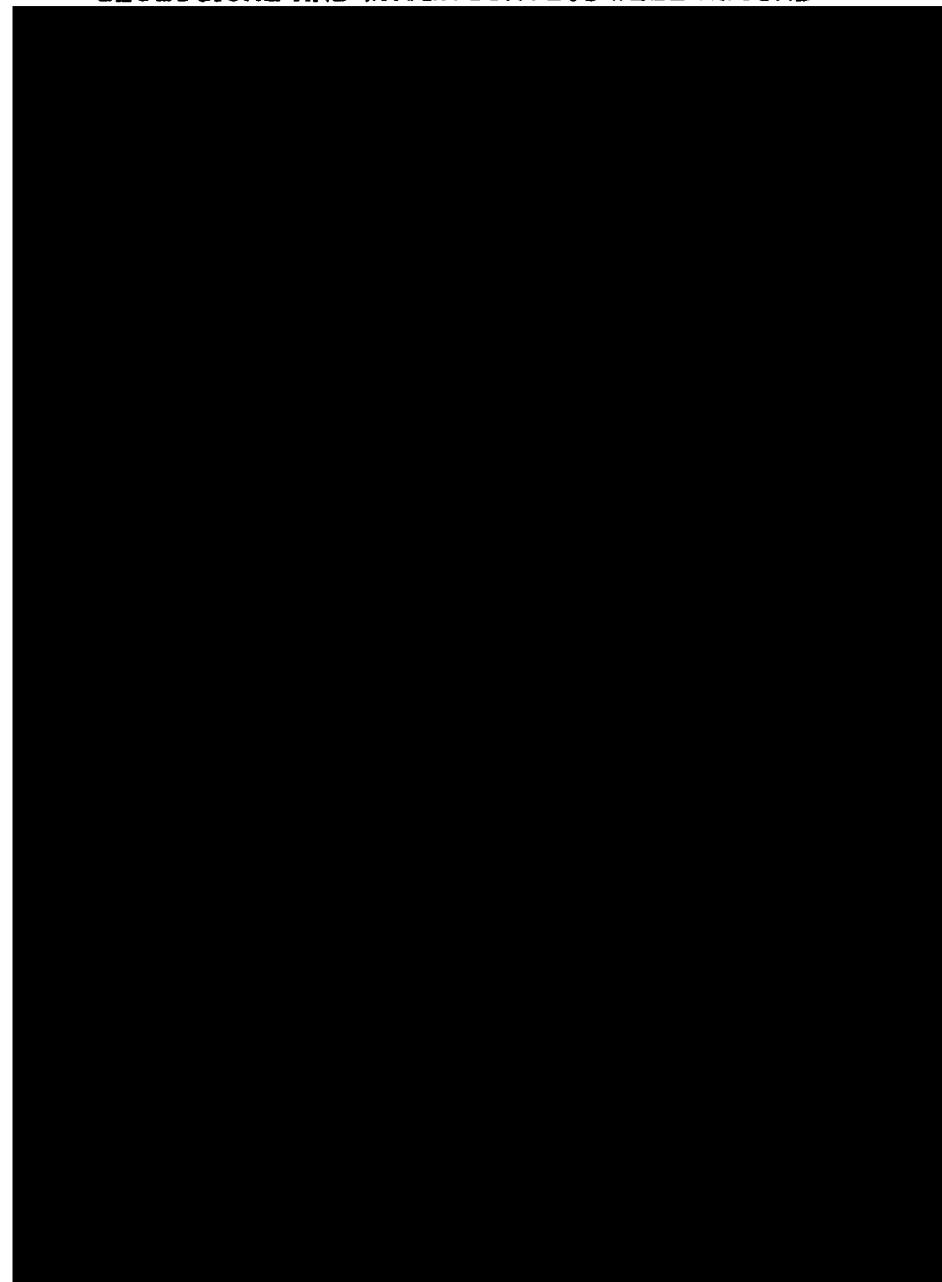
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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT



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ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

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